

Fire Alarm Systems.

Product Catalogue.

FIRE ALARM

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1 General hints

This product catalogue describes the most important components of the Integral fire alarm control panel and fire alarm system, thereby representing a mere fraction of our very extensive range of products. All information which is not contained in this catalogue is available upon request at any time from one of our sales offices.

All Schrack fire alarm systems are developed in Austria and constitute the technological state-of-the-art and the latest scientific findings, whilst observing the currently enforced standards (European standards, fire brigade specifications, and certification from European Testing and Certification Centres etc.). Schrack Seconet frequently cooperates with technical universities and international companies, as well as with testing and accreditation centres, fire prevention centres and fire brigade associations, so that our products can be constantly improved and adapted to meet new demands. Our employees are active in all important national and international bodies (such as CEN, DIN, ON, VBÖ etc.). Schrack Seconet's high quality is documented in a quality management system, which has been certified in accordance with ISO 9001 for all the company's divisions.

The planning of fire alarm systems as well as the installation, commissioning and maintenance of products and the systems which they form required specialist expert knowledge, and therefore may only be undertaken by specially trained experts. The product-specific training of staff members must be carried out by Schrack Seconet or by people who have been specifically authorised to carry out this duty by Schrack Seconet. In addition to this, the currently applicable country-specific regulations and guidelines for the planning, construction of and use of the products must be observed and complied with without fail. Damage and consequential damage which have been caused due to interference or modifications made to our products or by improper handling of them are excluded from liability. The same is also true for inappropriate storage of items or other detrimental external factors.

We would explicitly like to point out that the fire alarm system must be periodically serviced in accordance with the respective relevant standards (e.g. ÖNORM F3070, DIN 14675 etc.), in order to also ensure that the system's range of functions and predictive scope is also maintained in the long term.

The descriptions and technical information contained below corresponds to the current status stands at the time of printing. We reserve the right to make alterations, particularly where they are the result of technical improvements. The products illustrated in this document may differ in terms of their appearance as a result of the constant continued development from those products which are delivered.

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Sample entry for an article

	<p>Illustration</p>	<p>Integral cabinet B5-SCU</p>	<p>Article Description</p>
<p>Type: B5-SCU N°: FG052100</p>			<p>Description & Technical specifications</p>
<p>Type Descriptor & Article Number</p>			
<p>Please quote these number in enquiries and orders.</p>			

2 Fire Alarm Control Panels

2.1 Integral

The Integral fire alarm system is a modular fire alarm system which is designed in a decentralised manner, constructed from individual components, tailored in accordance with individual requirements for the system. This completely modular approach to system design ensures that the system can be deployed in nearly all areas of application, from the smallest of systems to networked systems covering a large area, and can also easily be expanded and customised.

Integral technology allows the control panel to be deployed either as a fire alarm control panel or as an extinguishing system control panel. Every control panel is an autarchic unit with a case, power supply and battery buffering. Centralised controlling is carried out by a main processor module. A module rack allows individually tailored installation of modules for different functions such as detector zones, inputs and outputs, or for connecting external operating panels, floor plan panels and fire brigade control panels etc.

A main feature of the Integral system is the intelligent full redundancy. Not only is the microprocessor structure duplicated, but all system structures, components and electrical elements in the fire alarm control panel are present in duplicate. The occurrence of a fault in the active section of the system causes the system to be automatically switched over to the other side and for a system fault to be indicated.

All functions, such as detection, triggering of alarms, plain text indication and controlling of fire alarm devices etc. remain unaffected. Also the data circuits to external operating panels and connections between the networking control panels (subcontrol unit loop) are duplexed, in order to ensure the continued complete functionality of all system components in the event of circuit breaks or system faults. Due to this redundant system design, the Integral system is suitable to trigger and to receive, process and indicate signals of more than one extinguishing area.

Several subcontrol unit loops can be networked to form a large SecoNET network. Indication and operation in this case is carried out from a master control panel with a high-end operating panel or by using a control system (PC workstation).

The following stated case versions, modules and peripheral devices can be used in nearly any combination according to the requirements.

Basic Configuration

- Fully-redundant microprocessor unit fitted in a sheet steel case
- Four line display for displaying the system status in plain text (alarms, faults etc.)
- Acoustic and optical alarm notification for alarms and faults
- Alarm buffering
- Self-testing cyclical test routines, with fully-automatic and detailed fault reporting
- Possibility to manually test the control panel and its functions
- Plain text indication of individual detectors and indicator zones
- Integrated serial data log printer with event log memory
- All modules are fully-redundant
- Independent two computer system
- 8 free connection slots for detector zone and input and output modules
- 3 free connection slots for relay modules
- System configuration saved using flexible flash memory technology
- Emergency power supply for a supply interruption period of 72 hours

Pre-equipped for:

- Decentralised operation - the control panel can be networked without the need for a superordinated control system, with the possibility of installing up to 16 control panels throughout the building complex
- Daytime/Night time operation mode switching can be individually programmed for each detector zone and every week day
- Intervention mode
- Detectors can be freely assigned and linked to controller criteria software controlled
- Software-controlled 2-zone or 2-detector dependency for alarm notification and controlling of devices
- Recognition and evaluation of the status of detectors (contamination)
- Disablement of individual detectors
- Connection of up to eight operating panels located up to 1200 m away, with a four line (each with twenty characters) LCD display, for plain text indication of all system states
- Serial data interfaces for controlling by fire alarm control systems, for networking of several fire alarm control panels and for connecting external log printers
- Connection of a Firebrigade control panel in accordance with ÖNORM F3031
- Firebrigade control panel connection in accordance with DIN 14661
- Firebrigade indication panel connection in accordance with DIN 14662
- Can be networked with all types of Schrack fire alarm control panels

Integral as a controller unit for multiple-zone extinguishing systems

Automatic electronic control and delay mechanisms (=EST) are used to control stationary fire extinguishing systems. As a result of its unique redundancy concept, and the particularly high level of security, which is ensured for widest possible range of uses, the Integral system can be adapted easily to meet the requirements needed for use as an “Electronic control and delay mechanism”. This is done by using any of the case types B5-SCU-CP4L, B5-SCU-C8L and B5-SCU-CP4L-IP55, an additional, as the standard requires, LED parallel indicator panel and the accompanying software. As a result of these enhancements made to the Integral fire alarm control panel in accordance with standards and guidelines EN 12094-1 and VdS 2496, the control panel is now suitable and approved for use for controlling and monitoring the following types of fire extinguishing systems:

- CO²-high pressure extinguishing systems where life is or is not endangered
- CO²-low pressure extinguishing systems where life is or is not endangered
- Inert gas and argon extinguishing systems where life is or is not endangered
- Water spray systems
- Pre-action sprinkler systems
- Sprinkler Systems
- Mist water deluge systems
- Chemical extinguishing systems

Approvals

- VdS approvals: G298029, S298029, G204087
- CPD-Certificate No.: 0786-CPD-20240 (VdS)
- Austrian testhouse „Prüfstelle für Brandschutztechnik“: No.: FT 14/170/7/96, FT 14/171/7/96
- VB Cert Austria: No. 002/BM-PSys/008, 002/BM-PSys/009, 002/BM-PSys/010
- Deutsches Institut für Bautechnik: Z-6.5-1871
- Test for Electromagnetic Compatibility: TÜV Österreich Nr. M/EMV-96/381
- Country-specific approvals in Austria, Germany, Denmark, Italy, Croatia, Netherlands, Poland, Romania, Russia, Sweden, Switzerland, Slovakia, Czech Republic, Turkey, Ukraina, Hungary, etc.

Integral cabinet versions



Type: B5-SCU
N°: FG052100

Integral cabinet B5-SCU

Basic version of Integral cabinet, door without operating panel cutaway, consisting of:

- Sheet steel cabinet
- B5-MCU master control unit
- B5-PSU power supply unit
- Module rack with BUS circuit boards
- Power clips und battery cable
- Space for batteries (max. battery size 2 x 12 V/45 Ah)

Input voltage / frequency:	230 VAC +15%/-20% 47-63 Hz
Input power:	max. 280 W
Output voltage:	26,3 VDC (+50°C) to 28,3 VDC (0°C)
Output current:	7,5 A
Quiescent current:	74 mA (without operating panel / printer)
Batteries that can be used:	2 pcs. 12 V / 38...40 Ah in series
Emergency supply with batteries:	72 h hours normal operation + 0.5 h alarm
Protection category:	IP 30 (acc. to DIN 40050)
Ambient temperature:	0° to +50°C
Relative air humidity:	5 to 95%, without condensation
Air pressure:	> 80 kPa, to 2000m above sea level
Case:	sheet steel, red RAL 3000
Dimensions:	600 x 445 x 225 mm (HxWxD)
Weight basic version:	15 kg (without batteries)
Weight per battery:	15 kg



Type: B5-SCU-C
N°: FG052101

Integral cabinet B5-SCU-C

Basic version of the Integral cabinet, but also with

- cutaway for built-in operating panel

The operating panel must be ordered separately.



Type: B5-SCU-CP
N°: FG052102

Integral cabinet B5-SCU-CP

Basic version of the Integral cabinet, but also with

- cutaway for built-in operating panel
- built-in log printer

The operating panel must be ordered separately.



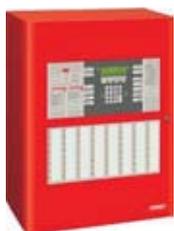
Type: B5-SCU-CP-EAT32
N°: FG052107

Integral cabinet B5-SCU-CP-EAT32

Basic version of the Integral cabinet, but also with

- cutaway for built-in operating panel
- built-in log printer
- LED indicator panel for indication of alarm, fault and disablement states for 32 detector zones

The operating panel must be ordered separately.



Type: B5-SCU-C-EAT64
N°: FG052108

Integral cabinet B5-SCU-C-EAT64

Basic version of the Integral cabinet, but also with

- cutaway for built-in operating panel
- LED indicator panel for indication of alarm, fault and disablement states for 64 detector zones

The operating panel must be ordered separately.



Type: B5-SCU-CP4L
N°: FG052103

Integral cabinet B5-SCU-CP4L

Basic version of the Integral cabinet, but also with

- cutaway for built-in operating panel
- built-in log printer
- indicator panel for 4 extinguishing zones

The operating panel must be ordered separately.



Type: B5-SCU-C8L
N°: FG052104

Integral cabinet B5-SCU-C8L

Basic version of the Integral cabinet, but also with

- cutaway for built-in operating panel
- indicator panel for 8 extinguishing zones

The operating panel must be ordered separately.



Type: B5-SCU-CP4L-IP55
N°: FG052105

Integral cabinet B5-SCU-CP4L-IP55

Basic version of the Integral cabinet, built into an IP 55 case (600 x 600 x 370 mm), but also with

- cutaway for built-in operating panel
- built-in log printer
- indicator panel for 4 extinguishing zones
- protection category IP 55

The operating panel must be ordered separately.



Type: B3-SUB-CIP-D
N°: FG81600

Built-in Operating Panel B3-SUB-CIP

Operating panel for fitting in various types of Integral cabinet, including a country-specific membrane keypad, 4 line alphanumeric or graphical LC-display (dependent on the country-specific special characters required), cover and controller module.

The Integral operating panel is available in many different language versions (both the labelling of the membrane keypad as well as the menu options on the display). The order number listed next to this entry is that of the German version, with the order number for other language variations being available upon request from our sales offices.

Integral modules

All modules and components of the Integral system are constructed in a fully-redundant way to ensure system availability. This guarantees that information is displayed in its entirety, that signals are processed and that all fire actuation devices are in full function at any time. The module rack of an Integral cabinet always contains the B5-MCU master control unit connected in slot 1, whilst the B5-PSU power supply unit is always connected in slot 10. Connection slots 2 to 9 can be fitted with all the detector zone modules or input/output modules described hereafter, with connection slots 11 to 13 being reserved exclusively for fitting relay modules of type B3-REL10, B3-REL16 or B3-REL16E. If relay modules are being used, then a module of type B5-BAF, B5-MRI16 or B3-LPI must be fitted to connection slot 9. With the exceptions of modules of type B3-REL10, B3-REL16(E) and B5-MRI16, all required connection plugs are supplied with the modules.



Type: B3-DAI2
N°: EG072812

Module for loop technology B3-DAI2

For connecting 2 loop circuits (loops) to the relevant Integral loop technology modules and detectors. Alternatively one loop circuit and two stub lines or four stub lines can be connected.

- Controlling digital loop communications and backing up of data
- Detectors can be linked via modules and subcontrol units
- Alarm criteria and control criteria can be linked
- Disablement of individual detectors
- Evaluation of detector states (contamination recognition)
- Monitoring of all connected detectors and modules
- Localisation of wire breaks and short circuits on the loop

Supply voltage:	internally via the system bus
Power consumption:	35 mA
Ambient temperature:	0° to +50°C
Elements:	2 loop circuits, each with max. 128 devices
Short circuit isolator:	integrated into detectors and modules
Individ. detector identification:	integrated as standard
Cable:	1 x 2 x 0,8 mm shielded (standard)
Length of loop circuit:	max. 2000 m

Replacement part	Type	No.
16-pin connection-plug	ST-B3 16	YY970138



Type: B3-DCI6
N°: EG072811

Module for DC technology B3-DCI6

For connecting up to 6 inputs, which can be set either as detector zones using DC technology, as monitored inputs or as extinguisher inputs (e.g. VdS sprinkler interface, primary inputs, valve monitoring etc.) via jumper caps and via programming.

Supply voltage:	internally via the system bus
Power consumption:	30 mA max. current limited
Connection:	6 detector zones (max. 30 detectors/zone)
Terminal resistance:	11,8 kΩ
Alarm resistance:	560 Ω
Line resistance:	max. 71,5 Ω per core
Ambient temperature:	0° to +50°C
Individ. detector identification:	possible with detector zone recognition
Range:	max. 2000 m
Cable diameter:	2-core: 0,6 or 0,8 mm 3-core: 0,8 mm

Replacement part	Type	No.
Connector plug for B3-DCI6	ST-DCI6	FG74099



Type: B5-BAF
N°: EG072908

Control module B5-BAF

For connecting fire brigade control panels, transmission equipment (main detectors), alarm systems (sirens) and for controlling the relay bus. The module also controls an interface for the MMI-BUS (bus for external devices) to which external operating panels and the Austrian fire brigade operating panel among other devices are connected.

Supply voltage:	internally via the system bus
Power consumption:	35 mA typ. with activated output controller, without peripheral current
Ambient temperature:	0° to +50°C
Relay bus interface:	for B3-REL10 or B3-REL16(E)
Interface (DIN 14661):	12-pin connectable screw clip plug
Transmission Type:	parallel, bidirectional
Range:	max. 5 m
OM1 interface:	transmission equipment or monitored output, 26 V/1,5 A
OM2 interface:	monitored output, 26 V/1,5 A
MMI-BUS interface:	galvanically isolated RS 485, max. 1200 m

Replacement parts	Type	No.
IDC connector MMI-BUS	ST-BAF-MMI-S	FG74085
Solder plug terminal connector MMI-BUS	ST-BAF-MMI-L	FG74086
Connector for firebrigade panel	ST-BAF-FBD	YK130459
Connector for monitored inputs/outputs	ST-BAF-OM	FG74088



Type: B3-OM8
N°: EG072813

Module for monitored outputs B3-OM8

For connecting peripheral devices (flashing lights, sirens, etc.). Contains 8 short circuit and wire break monitored 1.5A controller outputs. The maximum total output current for outputs 1 to 4, and for outputs 5 to 8 is 3A, with the total output current of the module being dependent on the capacity of the power supply unit and how the system is configured.

Supply voltage:	internally via the system bus	
Power consumption:	9 mA	
Ambient temperature:	0° to +50°C	
Output voltage:	22 V min / 24 V typ. / 28 V max.	
Output current:	1,5 A max.	
Short circuit current:	1,77 A min. / 2,17 A typ. / 3,14 A max.	
Loads (16Ω - 1kΩ):	Load range	Line resistance
Zone 1	354-1000 Ω	max. 50 Ω
Zone 2	85-354 Ω	max. 20 Ω
Zone 3	16-85 Ω	max. 5 Ω

Replacement parts	Type	No.
Connector plug for B3-OM8	ST-OM8	FG74095



Type: B3-IM8
N°: EG072855

Module for monitored inputs B3-IM8

For connecting up to eight stub lines, which can either be configured as detector zones (Hekatron 130 detector series or Hochiki Ex-i detectors) or as monitored inputs (e.g. VdS sprinkler interface, primary inputs, valve monitoring etc.). The operating mode of the individual stub lines can be set independently of one another using programming and jumper cap settings on the module.

Supply voltage:	internally via the system bus
Power consumption:	9 mA (battery current without peripherals)
Ambient temperature:	0° to +50°C
Connection:	8 detector zones or 8 monitored inputs

Replacement parts & Accessories	Type	No.
Connector plug for B3-IM8	ST-MTI8	FG74087
Jumper 953R f. B3-IM8 (8 Stk.)	JUMP-IM8-953R	FG74113
Jumper 110R f. B3-IM8 (8 Stk.)	JUMP-IM8-110R	FG74114



Type: B3-USI4
N°: EG072815

Universal interface module B3-USI4

For connecting Integral subcontrol units to control systems, for controlling external printers, pagers, ComBOX units, telephone servers etc. and for interconnecting several Integral subcontrol units (in loop configuration serially via 2 redundant cables each). A total of 4 redundant, serial, asynchronous interfaces can be used as redundant RS 485 connections in half duplex mode (for loops) or as non redundant RS 422 connections in full-duplex mode (for lines). Furthermore, two of the four interfaces can also be operated as RS 232 in full-duplex operation (line) each with 2 control circuits. The selection of each interface's operating mode is done by programming and hardware configuration, with it also being possible to select between a connection being made to a subcontrol unit loop and/or a redundant/non redundant connection to control systems etc. A maximum of five B3-USI4 units can be fitted per subcontrol unit.

Supply voltage:	internally via the system bus
Power consumption:	20 mA
Ambient temperature:	0° to +50°C
Range:	RS 485 = 1200 m RS 232 = 15 m
Transmission type:	asynchronous, serial
Transmission rate:	57,6 kBaud
Interfaces:	2x2 redundant half duplex RS 485 interfaces, also full duplex operation, galvanic. isolated 2 redundant RS232 interfaces, galvanically isolated

Replacement parts	Type	No.
9-pin solder plug connector for B3-USI4	ST-LPI/USI4/HFI	FG74097
15-pin solder plug connector for B3-USI4	ST-USI4	FG74098



Type: B3-LPI
N°: EG072810



Type: PCMCIA
N°: FG020317

Module for subcontrol unit coupling B3-LPI

For interconnecting Integral subcontrol units and for use with »Integral RemoteControl Panel«. The module contains two RS 485 interfaces, a connection slot for a PCMCIA modem and an interface for controlling the Integral relay bus (if being used then the module should be fitted to connection slot 9). A maximum of five B3-LPI units can be fitted per subcontrol unit.

The PCMCIA modem is not supplied with the module and must be ordered separately as required.

Supply voltage:	internally via the system bus
Power consumption:	20 mA
Ambient temperature:	0° to +50°C
Range:	RS 485 = 1200 m
Transmission rate:	RS 485 = 76,8 kBit/s ; Modem = 33,6 kBit/s
Interfaces:	2 redundant half-duplex RS 485, galvan. isolated modem interface (for use with dedicated line and dial-up line connections) relay driver interface

Replacement parts	Type	No.
9-pin solder plug connector for B3-LPI	ST-LPI/USI4/HFI	FG74097



Type: B3-HFI
N°: EG072829

Module for optical fibre B3-HFI

Used in conjunction with one or two data converter(s) as a dual interface converter from the V.24 (RS 232) interface to the optic fibre for connecting Integral subcontrol units in areas where data transmission via optical fibre is necessary due to electromagnetic interference or distances involved being too great. The B3-HFI module is used to mechanically receive as well as supplying buffered power to up to two optical fibre data converters, with data transmission occurring via communications module B3-USI4. The connection to the B3-USI4 module is made from the front side of the module rack by plugging in two connection cables. To use the module, a B3-USI4 module is also required. A maximum of four B3-HFI units can be fitted per subcontrol unit. Supplied including two connection cables for connection to the B3-USI4 module.

Supply voltage:	internally via the system bus
Power consumption:	20 mA including 2 converters: typically 186 mA
Ambient temperature:	0° to +50°C
Connection:	Line/Loop to B3-USI4
Electrical:	RS 232, asynchronous, 57,6 kBit/s bidirectional, half-duplex each using a 9-pin sub D connector
Mechanical:	2 connection slots for fibre optic cable converter (e.g. OZDV 2471G, FG020211)

Replacement parts	Type	No.
9-pin solder plug connector for B3-HFI	ST-LPI/USI4/HFI	FG74097



Type: OZDV 2471G

N°: FG020211

Data converter for optical fibre

To be fitted on the B3-HFI module. Among other uses, is used for networking Integral subcontrol units as a dual interface converter from V.24 (RS232) interface to optical fibre.

Bit rate:	up to 115 Kbit/sec
Electrical:	RS 232
Optical:	optical fibre G 50/125 or G 62,5/125
Wavelength:	850 nm
Range:	Glasfaser G 50/125 to 6700 m Glasfaser G 62,5/125 to 6600 m
Transmission Type:	serial, asynchronous
Direction:	bidirectional, full-duplex
Mechanical:	25-pin Sub-D for RS 232; BFOC 2,5 (STR) for optical fibre



Type: B3-REL10
N°: EG072804

Relay module B3-REL10

The module contains 10 bistable, freely programmable 230V/3A relay contacts. Whether a contact is a make contact or a break contact is ascertained by configuration using software. By programming a fail-safe position the status of every individual relay can be defined in the event of a supply voltage failure or the fire alarm control panel being switched off. A module of type B5-BAF, B3-LPI or B5-MRI16 must be fitted to connection slot 9 of the Integral module rack for controlling the relay. Module B3-REL10 can only be fitted to connection slots 11 to 13 of the module rack.

Supply voltage:	internally via the system/relay bus
Ambient temperature:	0° to +50°C
Relay construction type:	bistable
Contact resistance:	30 mΩ
Maximum switching surge:	230 VAC / 125 VDC
Max. switching current:	3A both poles routed to terminals

Caution: The connection plugs for the relay outputs are not shipped with the module and must be ordered separately:

Accessories	Type	No.
2 pcs connection plug (standard)	ST-SET REL10 W	FG74103
2 pcs connection plugs (screwed in front)	ST-SET REL10	FG74104



Type: B3-REL16
N°: EG072807

Relay module B3-REL16

The module contains 16 bistable, freely programmable 24V/3A relay contacts and is used for controlling sirens, holding magnets, relays etc. Whether the contact is a make or break contact is determined by software-based programming. By programming a fail-safe position the status of every individual relay can be defined in the event of a supply voltage failure or the fire alarm control panel being switched off. A module of type B5-BAF, B3-LPI or B5-MRI16 must be fitted to connection slot 9 of the Integral module rack for controlling the relay. Module B3-REL16 can only be fitted to connection slots 11 to 13 of the module rack.

Supply voltage:	internally via the system/relay bus
Ambient temperature:	0° to +50°C
Relay construction type:	bistable
Contact resistance:	30 mΩ
Maximum switching surge:	30 VAC/ 30 VDC
Max. switching current:	3A both poles routed to terminals

Caution: The connection plugs for the relay outputs are not shipped with the module and must be ordered separately:

Accessories	Type	No.
2 pcs connection plug (standard)	ST-SET REL16 W	FG74105
2 pcs connection plugs (screwed in front)	ST-SET REL16	FG74106



Type: B3-REL16E
N°: EG072822

Relay module B3-REL16E

Identical to module B3-REL16 in terms of technical specifications and function, but, however, also contains additional fused relay contacts (the fuses are not monitored) and resistors (3.3 k Ω monitoring resistance and 680 Ω working resistance) for use as a VdS extinguisher interface. Using jumpers it is possible to choose between normal relay contacts and VdS interfaces.

Contact protection: 3.15 A miniature fuse with slow triggering characteristic

Caution: The connection plugs for the relay outputs are not shipped with the module and must be ordered separately:

Accessories	Type	No.
2 pcs connection plug (standard)	ST-SET REL16 W	FG74105
2 pcs connection plugs (screwed in front)	ST-SET REL16	FG74106



Type: B5-MRI16
N°: EG072956

Relay module B5-MRI16

The module contains 16 bistable, freely programmable 24V/3A relay contacts. Whether a contact is a make contact or a break contact is ascertained by configuration using software. By programming a fail-safe position the status of every individual relay can be defined in the event of a supply voltage failure or the fire alarm control panel being switched off.

The B5-MRI16 can be fitted in any of connection slots 2-9 of the Integral module rack and also contains an interface for controlling the Integral relay bus. By fitting the module to connection slot 9, relay modules of type B3-REL10, B3-REL16 and B3-REL16E can also be controlled.

Supply voltage: internally via the system bus
 Power consumption: 6 mA typ. (battery current)
 Ambient temperature: 0° to +50°C
 Relay construction type: bistable
 Contact resistance: 30 m Ω
 Maximum switching surge: 30 VAC / 30 VDC
 Max. switching current: 3A both poles routed to terminals

Caution: The connection plugs for the relay outputs are not shipped with the module and must be ordered separately:

Accessories	Type	No.
2 pcs connection plug (standard)	ST-SET REL16 W	FG74105
2 pcs connection plugs (screwed in front)	ST-SET REL16	FG74106

Integral upgrade modules



Type: B3-MTI8
N°: EG072809

Module for monologue technology B3-MTI8

For connection of up to eight stub lines, which can either be configured as detector zones using Monologue Technology or as monitored inputs. For reasons relating to approvals, this module may only be used for renovation purposes.

Supply voltage:	internally via the system bus
Power consumption:	9 mA
Ambient temperature:	0° to +50°C
Detector zones:	8 (max. 62 detectors per zone)
Individ. detector identification:	integrated as standard
Cable diameter:	0.6 or 0.8 mm
Range:	max. 1000 m

Replacement parts	Type	No.
Connector plug for B3-MTI8	ST-MTI8	FG74087



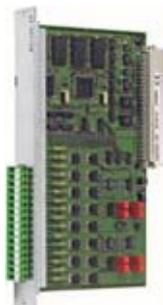
Type: B3-DTI2
N°: EG072853

Module for dialogue technology B3-DTI2

For connection of two loop circuits (loops) or 4 stub lines to the relevant BMZ Maxima dialogue technology detectors and modules. The module may only be used in conjunction with either of a B3-MCU32E2 or a B5-MCU master control unit, and may only be deployed for renovation purposes according to approvals.

Supply voltage:	internally via the system bus
Power consumption:	52 mA
Ambient temperature:	0° to +50°C
Devices/elements:	2 loop circuits, max. 128 devices each
Short circuit isolator:	integrated into detectors and modules
Individ. detector identification:	integrated as standard
Cable:	1 x 2 x 0,8 mm shielded (standard)
Loop length:	max. 1100 m

Replacement parts	Type	No.
16-pin connector plug	ST-B3 16	YY970138



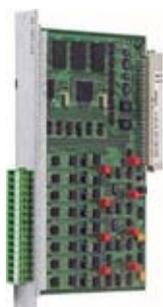
Type: B3-LEE23
N°: EG072851

Module for 140 detector series B3-LEE23

For connection of up to eight stub lines each with a maximum of thirty 140 series detectors. A maximum of five B3-LEE23 modules can be connected to connection slots 2 to 8 of an Integral module rack, with the modules only being allowed to be used for renovation purposes according to the approvals.

Supply voltage:	internally via the system bus
Power consumption:	22 mA
Ambient temperature:	0° to +50°C
Detector zones:	max. 8 logical detector zones per stub line
Addressing:	the hardware address set on the detector can be assigned any logical software address
Length of wires:	max. 1000 m

Replacement parts	Type	No.
16-pin connector plug	ST-B3 16	YY970138



Type: B3-LEE24
N°: EG072852

Module for 150 detector series B3-LEE24

For connection of up to four loop circuits (loops) each with a maximum of 127 series HX 150 detectors. A maximum of five B3-LEE24 modules can be fitted to connection slots 2 to 8 of an Integral module rack.

The module may only be used in conjunction with either of a B3-MCU32E2 or a B5-MCU master control unit, and may only be deployed for renovation purposes according to approvals.

Supply voltage:	internally via the system bus
Power consumption:	27 mA
Ambient temperature:	0° to +50°C
Devices/elements:	4 loop circuits, maximum 127 devices each
Addressing:	the hardware address set on the detector can be assigned any logical software address
Length of wires:	max. 1000 m

Replacement parts	Type	No.
16-pin connector plug	ST-B3 16	YY970138

2.2 Integral C

The Integral C fire alarm control panel is a cost-optimized fire alarm control panel for deployment in small systems. In the basic system layout, a maximum total of 256 devices can be connected to 2 loop circuits, in addition to interfaces for connecting external operating panels, floor plan panels, fire brigade control panels etc. Furthermore, it possesses an interface, which can be used for either connecting an extra two loop circuits, a universal interface module (for incorporation in subcontrol unit loops, networks or for connection to management systems etc.) or an input/output module.

The same commissioning and setting tools can be used as for the Integral system. Furthermore, with the exception of the high end operating panels, all devices described in the chapter “Indicator panels and operating panels” can be connected.

The Integral C is available with three different types of case, which differ from one another only in terms of the layout of their doors. The back wall, master processor unit, case etc. are identical in all types of Integral C sub-control unit.

It is suitable and approved in accordance with standard for controlling a single extinguishing zone in its form as SLZ Integral C extinguishing system control panel.

Summary of main features

- Mikroprozessorgesteuerte und überwachte Systemtechnik
- Microprocessor-controlled and -monitored system technology
- Software redundancy: the control panels Integral C and Integral C1 (from SW V 6.1) fulfill the requirements concerning redundancy of the operating software in accordance with the technical regulation TRVB S 123, Annex 6/1, 2.2.
- Constant automatic testing routines for all system components and programs
- Simple connection of components using a flat connection
- Up to 8 display and operating panels can be remotely connected per subcontrol unit, each with alphanumeric descriptions in full text, with a 4 line, 20 characters per line display, with a freely selectable language
- Serial data protocol printer, with emergency power supply, with event memory and announcement filter
- Suitable for connection to the firebrigade's public alarm system
- Can be connected to hierarchically superior computer systems or fire alarm control systems via serial data interfaces with full functionality (detector and command controlling)
- Fully redundant interconnection of up to 16 Sub Control Units, without the presence of a hierarchically superior central processor
- Networking of an almost infinite number of fire alarm control panels (even retrospectively)
- Data transmission between Sub Control Units occurs via a (double) redundant loop circuit
- Display panels and operating panels, protocol printers, parallel panels and other system components are connected with one another via digital communications circuits, and can be used in any desired combination regardless of their physical location
- The system complies with or exceeds the following relevant standards and guidelines: EN 54, ÖNORM, DIN, ÖVE, VDE, and many more.

Approvals

- VdS approvals: G200081, S200081, G206045, G206055, S206055
- CPD-Certificate No.: 0786-CPD-20239 (VdS)
- Austrian testhouse „Prüfstelle für Brandschutztechnik“: No.: FT 14/170/7/96, FT 14/171/7/96
- VB Cert Austria: No. 002/BM-PSys/008, 002/BM-PSys/009, 002/BM-PSys/010
- Country-specific approvals in Austria, Germany, Denmark, Italy, Croatia, Netherlands, Poland, Romania, Russia, Sweden, Switzerland, Slovakia, Czech Republic, Turkey, Ukraina, Hungary, etc.

Integral C as a controller unit for single zone extinguishing systems

Automatic electronic control and delay mechanisms (=EST) are used to control stationary fire extinguishing systems. By using the B6-X2-CP1L cabinet, the Integral C system can also be used as an »Electronic control and delay mechanism« for controlling single zone extinguishing systems in accordance with standards, and in this form conforms to the requirements of the standards and regulations EN12094-1 and VdS 2496.

The BLZ/SLZ Integral C is suitable and approved for controlling and monitoring of the following fire extinguishing systems:

- CO² - high pressure extinguishing systems where life is or is not endangered
- CO² - low pressure extinguishing systems where life is or is not endangered
- Inert gas and argon extinguishing systems where life is or is not endangered
- Water spray systems
- Pre-action sprinkler systems
- Sprinkler Systems
- Mist water deluge systems
- Chemical extinguishing systems

Integral C cabinet versions



Type: B6-X2
N°: FG052600

Integral C cabinet B6-X2

Basic version of Integral C cabinet, door without operating panel cutaway, consisting of:

- Sheet steel cabinet
- B6-BCU-X2 Master Control Unit
- B6-PSU Power Supply Unit
- Power clips und battery cable
- 2 loop circuits (max. 256 devices)
- 2 monitored outputs (transmission & alarm equipment)
- 2 monitored inputs
- 5 relay outputs (24 V/3 A)
- Connection for fire brigade control panel in accordance with DIN 14661
- Connection for external operating panels and fire brigade indicator panels (FAT) conformant to DIN 14662
- Interface for either B4-USI or B4-DAI2 or B4-EIO
- Maximum battery size 2 x 12 V/18 Ah

Input voltage / frequency:	230 VAC, +15% -20% / 47-63 Hz
Input power:	160 W
Output voltage:	26,3 VDC (50°C) to 28,3 VDC (0°C)
Output current:	4 A
Batteries that can be used:	2 Stk. 12 V / 15...18 Ah in series
Emergency power with batteries:	72 h normal operation + 0.5 h alarm
Ambient temperature:	0° to +50°C
Case:	sheet steel, red RAL 3000
Relative air humidity:	5 to 95%, without condensation
Air pressure:	> 80 kPa, to 2000 m above sea level
Protection category:	IP 30 (acc. to DIN 40050)
Dimensions:	400 x 445 x 140 mm (HxWxD)
Weight:	19 kg including batteries



Type: B6-X2-C
N°: FG052601

Integral C cabinet B6-X2-C

Basic version of the Integral C cabinet, but also with

- cutaway for built-in operating panel

The operating panel must be ordered separately.



Type: B6-X2-CP
N°: FG052602

Integral C cabinet B6-X2-CP

Basic version of the Integral C cabinet, but also with

- cutaway for built-in operating panel
- built-in log printer

The operating panel must be ordered separately.



Type: B6-X2-CP1L
N°: FG052603

Integral C cabinet B6-X2-CP1L

Basic version of the Integral C cabinet, but also with

- cutaway for built-in operating panel
- built-in log printer
- B4-EIO input/output module
- LED indicator panel for indication of one extinguishing zone

The operating panel must be ordered separately.



Type: B4-CIP-D
N°: FG81300

Built-in operating panel B4-CIP

Operating panel for fitting in various types of Integral C cabinet, including a country-specific membrane keypad, 4 line alphanumeric or graphical LCD display (dependent on the country-specific special characters required), cover and controller module.

The Integral C operating panel is available in many different language versions (both the keypad as well as the display menu options). The order number listed next to this entry is that of the German version, with other language variations being available upon request from our sales offices.

Integral C modules



Type: B4-DAI2
N°: EG072835

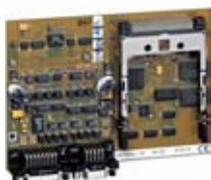
Module for loop technology B4-DAI2

For connecting additional two loop circuits (loops) with the relevant Integral loop technology detectors and modules to the fire alarm control panel Integral C. Alternatively it is also possible to connect a combination of one loop and two stub lines or four stub lines. The module is connected to the B6-BCU-X2 master control unit.

- Controlling digital loop communications and backing up of data
- Detectors can be linked via modules and subcontrol units
- Alarm criteria and control criteria can be linked
- Disablement of individual detectors
- Evaluation of detector states
- Monitoring of all connected detectors/ modules
- Localisation of wire breaks and short circuits

Supply voltage:	internally via B6-BCU-X2
Power consumption:	30 mA
Ambient temperature:	0° to +50°C
Elements:	2 loop circuits, each with max. 128 devices
Short circuit isolator:	integrated into detectors and modules
Individ. detector identification:	integrated as standard
Length of loop circuit:	max. 2000 m
Dimensions:	143 x 94 x 18 mm

Replacement parts	Type	No.
Connector plug for B4-DAI2	ST-LOOP/DAI	YK130295



Type: B4-USI
N°: EG072834

Universal interface module B4-USI

For connection to Integral networks, for connecting Integral C control panels to control systems, for controlling external printers, pagers, ComBOX, telephone servers etc. The module contains an interface for a PCMCIA modem for use with the Integral RemoteControl Panel software and two serial asynchronous interfaces. The module is connected to the B6-BCU-X2 master control unit.

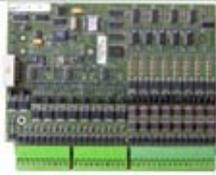
The PCMCIA modem is not supplied with the module and must be ordered separately as required.

Supply voltage:	internally via B6-BCU-X2
Power consumption:	21 mA, with PCMCIA modem 40 mA
Ambient temperature:	0° to +50°C
Range:	RS 485 to 1200 m RS 232 to 15 m
Interfaces:	1 galvanic. isolated redundant RS 485 1 galvanic. isolated redundant RS 232/RS485 Modem interface for PCMCIA modem (for dedicated line and dial-up connections)
Dimensions:	143 x 102 x 12 mm

Replacement parts	Type	No.
9-pin solder plug connector for B4-USI	ST-LPI/USI4/HFI	FG74097
15-pin solder plug connector for B4-USI	ST-USI4	FG74098



Type: PCMCIA
N°: FG020317



Type: B4-EIO
N°: EG072858

Input/output module B4-EIO

For connection of up to 10 stub lines each with a maximum of 30 detectors from the 130 A detector series, primary inputs or VdS conformant sprinkler interfaces and eight monitored outputs each with an output current of max. 1.5 A. Also suitable for connection of intrinsically safe Ex-i detectors using safety barriers and MCP525 and SSD/UTD 521 series detectors. The module is fitted on to the B6-BCU-X2 master control unit.

Supply voltage:	internally via B6-BCU-X2
Power consumption:	13,5 mA
Ambient temperature:	0° to +50°C
Number of inputs:	max. 10
Number of outputs:	max. 8
Length of wires:	max. 1000 m
Dimensions:	143 x 94 x 18 mm

Replacement parts	Type	No.
Set of replacement plugs for B4-EIO	ST-SET-EIO	FG74109

2.3 Integral C1

The Integral C1 fire alarm control panel is a cost-optimized fire alarm control panel for deployment in the smallest of systems. It is available as either the **Integral C1B** control panel with basic functions or as the **Integral C1F** control panel with fire brigade management interfaces, with the only difference between the two being in the master processor unit used. The Integral C1F with fire brigade management interfaces (FMS) is available with two different types of case, whilst the Integral C1B with basic functions is only available with one type of case. A loop circuit with a maximum of 128 elements can be connected to both control panels, and with the exception of the high-end operating panel all devices described in the chapter “Indicator panels and operating panels” can be connected. The Integral C1 can not be networked, and can also not be connected to superordinated systems (e.g. management systems).

Summary of main features

- Mikroprozessorgesteuerte und überwachte Systemtechnik
- Microprocessor-controlled and -monitored system technology
- Software redundancy: the control panels Integral C and Integral C1 (from SW V 6.1) fulfill the requirements concerning redundancy of the operating software in accordance with the technical regulation TRVB S 123, Annex 6/1, 2.2.
- Constant automatic testing routines for all system components and programs
- Simple connection of components using a flat connection
- Up to 8 display and operating panels can be remotely connected per subcontrol unit, each with alphanumeric descriptions in full text, with a 4 line, 20 characters per line display, with a freely selectable language
- Serial data protocol printer, with emergency power supply, with event memory and announcement filter
- Suitable for connection to the fire brigade’s public alarm system
- Display panels and operating panels, protocol printers, parallel panels and other system components are connected with one another via digital communications circuits, and can be used in any desired combination regardless of their physical location
- The system complies with or exceeds the following relevant standards and guidelines: EN 54, ÖNORM, DIN, ÖVE, VDE, and many more.

Approvals

- VdS approvals: G206055, S206055
- CPD-certificate No.: 0786-CPD-20602 (VdS)
- Austrian testhouse „Prüfstelle für Brandschutztechnik“: FT 14/170/7/96, FT 14/171/7/96
- VB Cert Austria: No. 002/BM-PSys/008, 002/BM-PSys/009, 002/BM-PSys/010
- Country-specific approvals in Austria, Germany, Denmark, Italy, Croatia, Netherlands, Poland, Romania, Russia, Sweden, Switzerland, Slovakia, Czech Republic, Turkey, Ukraina, Hungary, etc.

Integral C1F cabinet versions



Type: B6-X1F-C
N°: FG052611

Integral C1F cabinet B6-X1F-C

Basic version of Integral C1F cabinet, door with operating panel cutaway (the operating panel must be ordered separately), consisting of:

- Sheet steel cabinet
- B6-BCU-X1F master control unit
- B6-PSU power supply unit 24V/4A
- Power clips und battery cable
- 1 loop circuit (max. 128 devices)
- 1 main detector output (transmission equipment)
- 1 monitored output (alarm system)
- 5 relay outputs (230V/3A)
- Connection for firebrigade panel acc. to DIN 14661
- MMI-BUS connection (external operating panels, firebrigade panel for Austria, etc.)

Input voltage / frequency:	230 VAC, +15% -20% / 47-63 Hz
Input power:	160 W
Output voltage:	26,3 VDC (50°C) to 28,3 VDC (0°C)
Output current:	4 A
Batteries that can be used:	2 pcs. 12 V / 15...18 Ah in series
Emergency power with batteries:	72 h normal operation + 0.5 h alarm
Ambient temperature:	0° to +50°C
Case:	sheet steel, red RAL 3000
Relative air humidity:	5 to 95%, without condensation
Air pressure:	> 80 kPa, to 2000 m above sea level
Protection category:	IP 30 (acc. to DIN 40050)
Dimensions:	400 x 445 x 140 mm (HxWxD)
Weight:	19 kg including batteries



Type: B6-X1F-CP
N°: FG052612

Integral C1F cabinet B6-X1F-CP

Basic version of the Integral C1F cabinet, but also with

- built-in log printer

The operating panel must be ordered separately.



Type: B4-CIP-D
N°: FG81300

Built-in operating panel B4-CIP

Operating panel for installation in Integral C1F and C1B cabinets, including a country-specific membrane keypad, four line LC-display, cover and controller module. The Integral C1 operating panel is available in many different language versions (both the keypad as well as the display menu options). The order number listed next to this entry is that of the German version, with other language variations being available upon request from our sales offices.

Integral C1B cabinet versions



Type: B6-X1B-C
N°: FG052613

Integral C1B cabinet B6-X1B-C

Integral C1B cabinet incl. door with operating panel cutaway (the operating panel must be ordered separately), consisting of:

- Sheet steel cabinet
- B6-BCU-X1B master control unit
- B6-PSU power supply unit 24V/4A
- Power clips und battery cable
- 1 loop circuit (max. 128 devices)
- MMI-BUS connection (external operating panels, firebrigade panel for Austria, etc)

Input voltage / frequency:	230 VAC, +15% -20% / 47-63 Hz
Input power:	160 W
Output voltage:	26,3 VDC (50°C) to 28,3 VDC (0°C)
Output current:	4 A
Batteries that can be used:	2 pcs. 12 V / 15...18 Ah in series
Emergency supply with batteries:	72 h normal operation + 0.5 h alarm
Ambient temperature:	0° to +50°C
Case:	sheet steel, red RAL 3000
Relative air humidity:	5 to 95%, without condensation
Air pressure:	> 80 kPa, to 2000 m above sea level
Protection category:	IP 30 (acc. to DIN 40050)
Dimensions:	400 x 445 x 140 mm (HxWxD)
Weight:	19 kg including batteries



Type: B4-CIP-D
N°: FG81300

Built-in operating panel B4-CIP

Operating panel for installation in Integral C1F and C1B cabinets, including a country-specific membrane keypad, four line LC-display, cover and controller module. The Integral C1 operating panel is available in many different language versions (both the keypad as well as the display menu options). The order number listed next to this entry is that of the German version, with other language variations being available upon request from our sales offices.

2.4 Display- & operating panels

All external operating panels and devices in the Integral system whose device descriptor contains the letters »MMI« are connected via the »MMI-BUS« and can therefore be connected to all Integral, Integral C and Integral C1 control panels. The only exceptions are the B5-MMI-HCIP and B5-MMI-HCPP high-end operating panels, which can only be connected to Integral control panels.

The interface for connection the MMI-BUS can be found on module B5-BAF for the Integral control panel and on the master control units B6-BCU-X2, B6-BCU-X1F and B6-BCU-X1B for the Integral C and Integral C1 control panels.

The external Integral operating panels B3-MMI-CIP and B3-MMI-CPP, as well as both high end operating panels B5-MMI-HCIP and B5-MMI-HCPP are available in a wide range of languages (both the legend on the membrane keypad and the menus on the display). The order numbers listed below refer to the German language version, and other languages are available on request.



Type: B3-MMI-CIP-D
N°: FG050200

External operating panel B3-MMI-CIP

External operating panel with menu-based operation, including a case, membrane keypad, four line LCD display for indicating all system states in plain text and a controller module.

Operating voltage:	10 to 30 V
Quiescent current:	20 mA
Data transmission:	MMI-BUS
Electrical:	galvanically isolated RS 485
Protocol:	serial, DIN 19244-3
Distance to control panel:	max. 1200 m
Protection category:	IP 30
Ambient temperature:	0° to +50°C
Dimensions:	230 x 445 x 35 mm (HxWxD)
Case colour:	red RAL 3000



Type: B3-MMI-CPP-D
N°: FG050300

External operating panel with printer B3-MMI-CPP

External operating panel with menu-based operation, including a case, membrane keypad, four line LCD display for indicating all system states in plain text, a controller module and integrated serial data log printer.

Operating voltage:	10 to 30 V
Quiescent current:	20 mA
Data transmission:	MMI-BUS
Electrical:	galvanically isolated RS 485
Protocol:	serial, DIN 19244-3
Distance to control panel:	max. 1200 m
Protection category:	IP 30
Ambient temperature:	0° to +50°C
Dimensions:	360 x 445 x 45 mm (HxWxD)
Case colour:	red RAL 3000



Type: B5-MMI-HCIP
N°: FG052500

High-end operating panel B5-MMI-HCIP

External operating panel with ¼ VGA colour display and multi-function keys for centralised operation and indication of a fire alarm control panel or an entire SecoNET fire alarm network, in accordance with EN 54-2 and EN 54-4 as well as ÖNORM F 3000. Includes case and country-specific labelling. The high-end operating panel can only be connected to an Integral subcontrol unit. Direct connection to Integral C and Integral C1 control panels is not possible.

Operating voltage:	10 to 30 V
Quiescent current:	97 mA
Data transmission:	MMI-BUS
Electrical:	galvanically isolated RS 485
Protocol:	serial, DIN 19244-3
Distance to control panel:	max. 1200 m
Protection category:	IP 30
Ambient temperature:	0° to +50°C
Dimensions:	230 x 445 x 35 mm (HxWxD)
Case colour:	red RAL 3000



Type: B5-MMI-HCPP
N°: FG052501

High-end operating panel with printer B5-MMI-HCPP

External operating panel with ¼ VGA colour display and multi-function keys for centralised operation and indication of a fire alarm control panel or an entire SecoNET fire alarm network, in accordance with EN 54-2 and EN 54-4 as well as ÖNORM F 3000. Includes case and country-specific labelling and a serial data log printer.

The high-end operating panel can only be connected to an Integral subcontrol unit. Direct connection to Integral C and Integral C1 control panels is not possible.

Operating voltage:	10 to 30 V
Quiescent current:	97 mA
Data transmission:	MMI-BUS
Electrical:	galvanically isolated RS 485
Protocol:	serial, DIN 19244-3
Distance to control panel:	max. 1200 m
Protection category:	IP 30
Ambient temperature:	0° to +50°C
Dimensions:	360 x 445 x 45 mm (HxWxD)
Case colour:	red RAL 3000



Type: B3-MMI-IPEL
N°: FG050250

without case:
Type: B3-MMI-IPEL BFE
N°: FG81621

External LED indicator panel B3-MMI-IPEL

External LED indicator panel for eight extinguishing zones (12 LEDs per extinguishing zone and 9 LEDs for the system), including case, key switch, key and controller module. The panel is also available without case to be mounted into switch cabinets, the labelling is done using push-in strips (not supplied as standard).

Operating voltage:	10 to 30 V
Quiescent current:	2 mA per lit LED
Data transmission:	MMI-BUS
Electrical:	galvanically isolated RS 485
Protocol:	serial, DIN 19244-3
Distance to control panel:	max. 1200 m
Protection category:	IP 30
Ambient temperature:	0° to +50°C
Dimensions:	228 x 445 x 48 mm (HxWxD)
Case colour:	red RAL 3000



Type: B3-MMI-EAT64
N°: FG050251

without case:
Type: B3-MMI-EAT64 BFE
N°: FG81623

External LED indicator panel B3-MMI-EAT64

External LED indicator panel for indication of alarm, fault and disablement states for 64 detector zones. The panel is also available without case to be mounted into switch cabinets, the labelling is done using push-in strips (not supplied as standard).

Operating voltage:	10 to 30 V
Quiescent current:	2 mA per lit LED
Data transmission:	MMI-BUS
Electrical:	galvanically isolated RS 485
Protocol:	serial, DIN 19244-3
Distance to control panel:	max. 1200 m
Protection category:	IP 30
Ambient temperature:	0° to +50°C
Dimensions:	228 x 445 x 48 mm (HxWxD)
Case colour:	red RAL 3000



Type: B3-MMI-FPA
N°: FG050400

Austrian firebrigade panel B3-MMI-FPA

Firebrigade control panel conforming to ÖNORM F 3031, including LC-display, case and controller module with keys and LEDs. For visually displaying the more important operating states of fire alarm control panels for simple and uniform operation of a fire alarm system by firebrigade members.

Operating voltage:	10 to 30 V
Quiescent current:	14 mA
Data transmission:	MMI-BUS
Electrical:	galvanically isolated RS 485
Protocol:	serial, DIN 19244-3
Distance to control panel:	max. 1200 m
Protection category:	IP 30
Ambient temperature:	0° to +50°C
Dimensions:	300 x 200 x 55 mm (HxWxD)
Case colour:	red RAL 3000



Type: B3-MMI-FAT
N°: FG050403

without case:

Type: B3-MMI-FAT-BFE
N°: FG050405

Firebrigade panel B3-MMI-FAT

Indicator panel conforming to the requirements of DIN 14662, including an LC-display, case and controller module with keys and LEDs. Visually displays the more important operating states of fire alarm control panels to ensure simple and uniform operation of a fire alarm system by fire brigade members. A fire brigade control panel in accordance with DIN 14661 can also be connected to the B3-MMI-FAT.

Operating voltage:	22 to 30 V
Quiescent current:	21 mA
Data transmission:	MMI-BUS
Electrical:	galvanically isolated RS 485
Protocol:	serial, DIN 19244-3
Distance to control panel:	max. 1200 m
Protection category:	IP 30
Ambient temperature:	0° to +50°C
Dimensions:	185 x 255 x 65 mm (HxWxD)
Dimensions without case:	180 x 240 x 40 mm (HxWxD)
Case colour:	grey RAL 7032
VdS-approval:	G206116



Type: B3-MMI-UIO
N°: EG072827

Universal input/output module B3-MMI-UIO

For controlling the floor plan and parallel display panels or as a remotely located input/output module for querying potential-free contacts (sprinkler systems), or also for controlling non-monitored horns, lamps, relays etc. The module is either built directly in to the relevant panel or in branch cases. The system connection is via the MMI BUS.

Operating voltage:	10 to 30 V
Power consumption:	14 mA
Data transmission:	MMI-BUS
Electrical:	galvanically isolated RS 485
Protocol:	serial, DIN 19244-3
Distance to control panel:	max. 1200 m
Connection:	Floor plan, parallel indicator tableaux, flashing lights, sirens, sprinkler systems, etc.
Connection information:	64 LED outputs 2 mA 512 LED outputs per B5-BAF 8 open collector outputs, up to 100mA max. max. output voltage of +30 V 8 inputs with 8 outputs which can be interconnected as an 8x8 matrix input voltage + 5V input current 3.3 mA max.
Ambient temperature:	0° to +50°C
Dimensions:	160 x 105 x 20 mm
VdS-approval:	G200116
CPD-certificate:	0786-CPD-20422



Type: UIO GEH

N°: FG69041

Steel mounting board:

Type: UIO STP

N°: FG05203

Plastic case and steel mounting board for B3-MMI-UIO

Plastic case for module B3-MMI-UIO. The steel mounting board UIO STP is also required for fitting the module in the case. It consists of a zinc-plated sheet steel with 5 insertion pins and is used to secure the B3-MMI-UIO module into the plastic case.

Protection category:	flame-resistant, IP 66
Ambient temperature:	to +70°C
Case:	impact-resistant plastic (polystyrol)
Case colour:	grey RAL 7035
Dimensions Case:	182 x 180 x 90 mm (HxWxD)
Steel mounting board:	150 x 173 x 1,5 mm



Type: UIO KAB 34

N°: FG81725

Type: UIO KAB 40

N°: FG81726

Ribbon cable for B3-MMI-UIO

Peripheral connection cable for connecting LED indicator tableaux, available either with 34-pin (FG81725) or 40-pin (FG81726) connector, length 1 metre.

2.5 Software



Type: INT SW D/E
N°: FG74304

Integral software packs

For configuring Integral, Integral C and Integral C1 systems. The software only works when used in conjunction with the accompanying dongle, which is part of the full version of the software.

Operating system: Windows 2000/ XP®/VISTA®
Hardware requirements: CPU Pentium 1 GHz
min. 128 MB RAM
(depending on the operating system)
VGA graphics 1024x768 pixel, 256 colours
CD-ROM drive for installation,
60 MB free storage space on the hard drive
1 USB and 1 serial interface

Integral software packs	Type	No.
Software pack full version german/english	INT SW D/E	FG74304
Software Update german/english	INT SW D/E UPD	FG74306
Software full version International	INT SW INT	FG74307
Software update International	INT SW INT UPD	FG74308
SecoNET Software full version german/engl.	INT SW D/E N3	FG74309
SecoNET Software full version International	INT SW INT N3	FG74310



Type: INT SW RP
N°: FG023000

Software pack Integral RemoteControl Panel

For accessing data in the fire alarm system from one or more PC workstations. The operating panel of the fire alarm control panel is represented 1:1 on the monitor, and it is possible to access all the information in the fire alarm system using the keyboard and the mouse. A multi-layer security concept ensures that non-authorised system access is blocked. The software only works when used in conjunction with the dongle supplied.

Operating system: Windows 2000/ XP®/VISTA®
Hardware requirements: CPU Pentium 1 GHz
min. 128 MB RAM
(depending on the operating system)
VGA graphics 1024x768 pixel
CD-ROM drive
60 MB free storage space on the hard drive
Analogue modem and telephone connection
Installed Integral Software (V 5.1 or higher)

2.6 Accessories & replacement parts for Integral cabinets



Type: B5-MCU
N°: EG072939



Type: SD-CARD
N°: FG020325

Master control unit B5-MCU

The B5-MCU Master control unit is contained in every Integral control panel and carries out all necessary processes that are required for the system's logical behaviour. The unit communicates with all other modules, as well as with the operating panel and manages configuration data and the system clock. System states are indicated by means of two LEDs, with software and configuration data being uploaded, and system diagnosis being carried out via a USB 1.1 device interface (service interface) on the front side of the board, to which a PC with the necessary software (Servicemonitor) can be connected. On the front side of the board there is also a USB 1.1 host interface for connecting memory sticks or a dongle and an interface for a SD-Card for saving customer texts and configuration parameters.

Power supply: from B5-PSU via system bus
Quiescent current: 38 mA typ. (battery current)
Operating voltage: Battery voltage VL+22 V .. 30 V

Logic voltage VCC+5,0 V ± 5%
Logic voltage VCC+3,3V ± 5%

Service interface: USB 1.1 Device, type B connector
USB 1.1 Host, type A connector

Ambient temperature: 0° to +50°C

Relative air humidity: 5 to 95 %, without condensation

Accessories	Type	No.
SD-CARD 2GB	SD-CARD	FG020325



Type: B5-PSU
N°: EG072918

Power supply unit B5-PSU

The 7A power supply unit B5-PSU delivers the 3,3 V, 5 V and 27 V voltage required internally by the control panel. In parallel standby operating mode, it feeds two 38..40 Ah rechargeable batteries connected in series for emergency power supply, and furthermore, also has 5 separately fused 27 V outputs for external devices via connectable screw-type terminals. The battery monitoring circuitry present on the module is controlled and evaluated by the B5-MCU master control unit. The B5-PSU power supply unit is supplied as standard with all Integral subcontrol units.

Mains supply voltage/frequency: 230 VAC +15%/-20% 47-63 Hz

Outputs for external devices: 5 x 27 V, 2,5 A FF

Power consumption: max. 280 VA

Replacement parts	Type	No.
Replacement fuse	ZUB SICH 2.5FF	IS625228
Connection plug for external devices	ST-PSU EV	FG74090



Type: AKKU 40
N°: HG691017

Battery for emergency power supply

VdS approved batteries for ensuring the power supply for Integral control panels in the event of a power failure. 2 batteries are required for each Integral.



Type: B3-SCU LEER
N°: FG69037

Integral cabinet (empty)

Empty Integral cabinet with door without cutaway for use as a battery cabinet, storage space etc.

Dimensions: 600 x 445 x 225 mm (HxWxD)
Case colour: red RAL 3000
Max. battery size : 2 x 12 V/45 Ah

Integral accessories

Description	Type	No.
USB cable 3 m for Service PC	KAB USB 3	FG022051
USB cable 4,5 m for Service PC	KAB USB 45	FG022052
Battery holder set for Integral cabinets	B3-BATHALT-SET	FG74108
Distance piece set for Integral cabinets	B3-DISHALT-SET	FG74110
Battery current measuring cable	KAB PSU	FG81720
Front blanking plate f. module rack	B3 BLIND	FG06240
Paper roll for log printer	B3 PPR	PPF-519057
Colour printer ribbon for log printer	PD FRB	HG694076
Battery cable set for Integral	B3 BATKAB1	FG29910
Bayonet fuses for the cable set	ZUB SICH8	IS625040
Lock for Integral cabinet	GEH SCHLOSS B3	FG29516
Key for Integral cabinet	SCHL SCHR	750000027



Connection plugs for Integral modules

The necessary connector plugs are supplied with the respective modules, with the items listed below intended for ordering as replacements.

Exception: Connector plugs must always be ordered separately for relay modules B3-REL10, B3-REL16, B3-REL16E and B5-MRI16 !

Module	Plug	Description	No.
B3-DAI2	ST-B3 16	16-pin, detector zones	YY970138
B3-DCI6	ST-DCI6	18-pin, detector zones	FG74099
B3-DTI2	ST-B3 16	16-pin, detector zones	YY970138
B3-HFI	ST-LPI/USI4/HFI	9-pin, interfaces	FG74097
B3-IM8	ST-MTI8	16-pin, inputs	FG74087
B3-LEE23	ST-B3 16	16-pin, detector zones	YY970138
B3-LEE24	ST-B3 16	16-pin, detector zones	YY970138
B3-LPI	ST-LPI/USI4/HFI	9-pin, interfaces	FG74097
B3-MTI8	ST-MTI8	16-pin, detector zones	FG74087
B3-OM8	ST-OM8	16-pin, monitored outputs	FG74095
B3-REL10	ST-SET REL10W	relay outputs standard 2 pcs.	FG74103
B3-REL10	ST-SET REL10	relay outputs front-side 2 pcs.	FG74104
B3-REL16(E)	ST-SET REL16W	relay outputs standard 2 pcs.	FG74105
B3-REL16(E)	ST-SET REL16	relay outputs front-side 2 pcs.	FG74106
B3-USI4	ST-LPI/USI4/HFI	9-pin, interfaces	FG74097
B3-USI4	ST-USI4	15-pin, interfaces	FG74098
B5-BAF	ST-BAF-OM	6-pin, monitored outputs	FG74088
B5-BAF	ST-FBF	13-pin, firebrigade panel DIN	YK130459
B5-BAF	ST-BAF-MMI-L	9-pin, solder plug MMI-BUS	FG74086
B5-BAF	ST-BAF-MMI-S	9-pin, IDC connector MMI-BUS	FG74085
B5-MRI	ST-SET REL16W	relay outputs standard	FG74105
B5-MRI	ST-SET REL16	relay outputs front-side	FG74106
B5-PSU	ST-PSU EV	10-pin, external devices	FG74090

2.7 Accessories & replacement parts for Integral C & C1 cabinets



Type: B6-BCU-X2
N°: EG072938



Type: SD-CARD
N°: FG020325

Master control unit B6-BCU-X2

The B6-BCU-X2 master control unit is part of each Integral C control panel and is screwed to the back wall of the cabinet. It contains all the interfaces required for the connection of peripheral devices, relay contacts, the MMI-BUS, monitored outputs and the service PC, as well as a connection slot in which an additional module (B4-USI, B4-DAI2 or B4-EIO) can be fitted. Power is supplied via an interface to the B6-PSU power supply unit, the built-in operating panel is connected via a 34-pin ribbon cable connector.

Power supply:	via B6-PSU power supply unit
Operating voltage:	Battery voltage VL+22 V .. 30 V Logic voltage VCC+5.0 V ± 5% Logic voltage VCC+3.3V ± 5%
Current consumption:	Battery current (idle) 48 mA typ.
Ambient temperature:	0° to +50°C
Relative air humidity:	5 to 95 %, without condensation



Type: B6-BCU-X1F
N°: EG072937



Type: SD-CARD
N°: FG020325

Master control unit B6-BCU-X1F

The B6-BCU-X1F master control unit is part of each Integral C1F control panel and is screwed to the back wall of the cabinet. It contains all the interfaces required for the connection of peripheral devices, relay contacts, the MMI-BUS, monitored outputs and the service PC. Power is supplied via an interface to the B6-PSU power supply unit, the built-in operating panel is connected via a 34-pin ribbon cable connector.

Power supply:	via B6-PSU power supply unit
Operating voltage:	Battery voltage VL+22 V .. 30 V Logic voltage VCC+5.0 V ± 5% Logic voltage VCC+3.3V ± 5%
Current consumption:	Battery current (idle) 47 mA typ.
Ambient temperature:	0° to +50°C
Relative air humidity:	5 to 95 %, without condensation



Type: B6-BCU-X1B
N°: EG072932



Type: SD-CARD
N°: FG020325

Master control unit B6-BCU-X1B

The B6-BCU-X1B master control unit is part of each Integral C1B control panel and is screwed to the back wall of the cabinet. It contains all the interfaces required for the connection of peripheral devices, MMI-BUS and Service PC. Power is supplied via an interface to the B6-PSU power supply unit, the built-in operating panel is connected via a 34-pin ribbon cable connector.

Power supply:	via B6-PSU power supply unit
Operating voltage:	Battery voltage VL+22 V .. 30 V Logic voltage VCC+5.0 V ± 5% Logic voltage VCC+3.3V ± 5%
Current consumption:	Battery current (idle) 43 mA typ.
Ambient temperature:	0° to +50°C
Relative air humidity:	5 to 95 %, without condensation



Type: B6-PSU
N°: EG072950

Power supply unit B6-PSU

The 4A power supply unit B6-PSU delivers the 3,3 V, 5 V and 27 V voltage required internally by the control panel. It is always fitted in the case of every Integral C/C1 on the right hand side next to the master control unit and is always connected to it using a 64 pin multipoint connector. On the bottom side of the power supply unit there is a 2 pole clip for connection to the rechargeable batteries and a 10 pin pluggable screw connector, to which external devices can be connected using five separately fused outputs. The battery monitoring circuitry present on the module is controlled and evaluated by the master control unit. The B6-PSU power supply unit is supplied as standard with all Integral C and C1 control panels.

Mains supply voltage / frequency:	230 VAC +15%/-20% 47-63 Hz
Power consumption:	max. 200 VA, max. 160W
Mains fuse:	with 10A current surge-resistant
Mains fuses in power supply:	4.0A T
Outputs for internal devices:	3.3V/3A, 5V/1A, 27V/4A
Outputs for external devices:	5 x 27V / 2.5A FF
Charging output for battery:	27V / 3.2A
Replacement fuses F1 to F5:	2.5A superfast, glass tube 5x20 mm

Replacement parts	Type	No.
Connection plug for external devices	ST-PSU EV	FG74090
Replacement fuses F1 to F5	ZUB SICH 2.5FF	IS625228
Battery current measuring cable	KAB PSU	FG81720



Type: AKKU 17
N°: HG691013

Battery for emergency power supply

VdS approved batteries for ensuring the power supply for Integral C and C1 control panels in the event of a power failure. 2 batteries are required for each Integral C/C1.

Integral C and C1 accessories

Description	Type	No.
USB cable 3 m for Service PC	KAB USB 3	FG022051
USB cable 4,5 m for Service PC	KAB USB 45	FG022052
Battery holder set f. Integral C & C1 cabinets	B4-BATHALT-SET	FG74112
Distance piece set f. Integral C & C1 cabinets	B4-DISHALT-SET	FG74111
Battery current measuring cable	KAB PSU	FG81720
Paper roll for log printer	B3 PPR	PPF-519057
Colour printer ribbon for log printer	PD FRB	HG694076
Battery cable set for Integral C & C1	B4 BATKAB	EI29940
Bayonet fuses for the cable set	ZUB SICH8	IS625040
Lock for Integral C & C1 cabinets	GEH SCHLOSS B3	FG29516
Key for Integral C & C1 cabinets	SCHL SCHR	750000027



Connection plugs for Integral C and C1 modules

The necessary connector plugs are supplied with the respective modules and/or cabinets, with the items listed below intended for ordering as replacements.

Module	Plug	Description	No.
B4-DAI	ST-LOOP/DAI	16-pin, detector zones	YK130295
B4-EIO	ST-SET EIO	2x10 & 1x16-pin, in-/outputs	FG74109
B4-USI	ST-LPI/USI4/HFI	9-pin, interfaces	FG74097
B4-USI	ST-USI4	15-pin, interfaces	FG74098
B6-BCU-X1B	ST-LOOP/DAI	16-pin, detector zones	YK130295
B6-BCU-X1B	ST-BAF-MMI-L	9-pin, solder plug for MMI-BUS	FG74086
B6-BCU-X1F	ST-LOOP/DAI	16-pin, detector zones	YK130295
B6-BCU-X1F	ST-B6-OM	5-pin, monitored outputs	FG74116
B6-BCU-X1F	ST-FBF	13-pin, firebrigade panel DIN	YK130459
B6-BCU-X1F	ST-B6-REL	10-pin, relay outputs	FG74115
B6-BCU-X1F	ST-BAF-MMI-L	9-pin, solder plug for MMI-BUS	FG74086
B6-BCU-X2	ST-LOOP/DAI	16-pin, detector zones	YK130295
B6-BCU-X2	ST-B6-OM	5-pin, monitored outputs	FG74116
B6-BCU-X2	ST-FBF	13-pin, firebrigade panel DIN	YK130459
B6-BCU-X2	ST-B6-REL	10-pin, relay outputs	FG74115
B6-BCU-X2	ST-BAF-MMI-L	9-pin, solder plug for MMI-BUS	FG74086
B6-PSU	ST-PSU EV	10-pin, external devices	FG74090
B6-PSU	ST-PSU NS	3-pin, mains plug	YK130302

3 Loop technology

3.1 Automatic fire detectors



Type: MTD 533
N°: FG030400

Type: MTD 533 CP
N°: FG030401

**all RAL colours available
upon request**

Multiple sensor detector MTD 533

The MTD 533 can be used as a smoke detector, as a heat detector or as a combined smoke/heat detector as well, and is programmed and set-up specifically for the environmental conditions that it is part of. The MTD 533 detects smouldering fires and open fires at an early stage by being able to detect and evaluate the characteristics of fire or smoke (by means of the Tyndall principle) as well as heat (NTC sensor principle). The detector is suitable for connection to Integral loop technology, and contains an integrated short circuit isolator, which ensures, in the event of a wire break or a short circuit, that the fault is localised and that the operation the loop circuit continues unimpeded. For installation in areas with difficult ambient conditions, the MTD 533 CP is available, which has an improved protection against increased air humidity.

- fire alarm smoke or heat, respectively smoke and heat
- smoke sensitivity and heat class can be set in accordance with EN 54
- Alarm output for external alarm indication
- Pre-alarm evaluation at 30% and at 75% of the alarm threshold level
- 2 level contamination detection
- Adjustment of alarm thresholds to compensate for environmental influences
- Alarm filter for reducing the number of deceptive alarms
- temperature-based smoke evaluation
- Software algorithm for evaluating the characteristics of the fire
- LED alarm indicator viewable from 360°
- Individual detector disablement
- Integrated short circuit isolator

Operating voltage:	16 to 30 VDC
Quiescent current:	200 µA typ.
Alarm current:	20 mA max.
Usable detector base:	USB 501-x
Function principle:	Tyndall effect and/or NTC sensor
Signal transmission:	serial biphasic data transmission, 2 core technology, 4800 Baud
Sensitivity:	conformant to EN 54-7 and EN 54-5 class A1, A2, B (Index S and R)
Protection category:	IP 44 (with USB501-1 base)
Ambient temperature:	-25° to +60°C
Relative air humidity:	short time/without condensation 95% rel/F continuous/without condensation 70% rel/F
Permissible airflow speed:	max. 20 m/s
Dimensions with base:	Ø 118 mm, unit height: 67,5 mm
Case colour:	pure white (all RAL colours upon request)
Case material:	ABS / PC
Weight:	125 g
VdS-approval:	G206106
CPD-certificate:	0786-CPD-20246

Replacement parts & Accessories

	Type	No.
Sticker grey ring (20 pcs.)	S GR	FG28422
Dust cap for MTD 533	DDC 533	FG030398



Type: USB 501-1
N°: FG030126

all RAL colours available upon request



Type: KL USB501
N°: FG030132

Detector base USB 501-1

For connecting all automatic detectors to the Integral loop technology, suitable for surface mounting, with either countersunk or surface mounting possible. A 6 pole terminal block is used for connecting the fire alarm cabling, and an additional 4 pole terminal block can be clipped into the dedicated snap-fit holder, if required, to form additional isolation points. Where detectors have not been fitted, it is possible to check the installation using the automatic locking mechanism which is integrated into the terminal block. The detector is attached by means of a bayonet fitting.

Areas for use:	dry and wet rooms
Installation type:	surface mounting
Connection:	screw-type terminals, max. 2 x 1,5 mm ²
Protection category:	IP 44
Ambient temperature:	-20° to +70°C
Relative air humidity:	short time/without condensation 95% rel/F continuous/without condensation 70% rel/F
Dimensions:	Ø 118 mm, unit height: 28 mm
Case colour:	pure white (all RAL colours upon request)
Case material:	ABS / PC, FR90
Weight:	65 g
VdS-approval:	G204008, G 297047, G 297049



Type: USB 501-6
N°: FG030700

Detector base without loop contact USB 501-6

The USB 501-6 detector base is exactly the same as the USB501-1 detector base in construction and functions, apart from the fact that it does not contain an automatic closing mechanism for the loop circuit. The loop circuit is only closed once the detector is connected.



Type: USB 501-2
N°: FG030135

Countersunk base for fitting in cavity ceilings USB 501-2

The USB 501-2 is used to connect all Integral loop technology automatic detectors and is so constructed to allow it to be built into an standard cavity ceiling. It consists of a fitting ring with fixing clips and sleeve, a USB 501-1 standard base and a bezel ring to cover the sleeve. The fitting ring contains openings and pre-determined breaking points for feeding in the installation cable, with a 6 pin terminal block being used to connect the fire alarm cable. If required, an additional 4 pin terminal block can be fitted in the designated snap-fit holder to form additional isolation points. The bezel ring is fitted at the same time as the detector.

Areas for use:	dry rooms
Installation type:	countersunk mounting in cavity ceilings
Connection:	screw-type terminals, max. 2 x 1,5 mm ²
Protection category:	IP 44
Ambient temperature:	-20° to +70°C
Relative air humidity:	short time/without condensation 95% rel/F continuous/without condensation 70% rel/F
Dimensions:	Ø 158 mm, unit height: 52,5 mm
Colour of bezel ring:	white
Case material:	ABS / PC, FR90
Weight:	100 g
VdS-approval:	G204008, G 297047, G 297049



Type: USB 501-3
N°: FG030136

Detector base for use in wet rooms USB 501-3

The USB 501-3 is used to connect all Integral loop technology automatic detectors and consists of an installation case with four PG 13.5 cable inlets, a USB 501-1 standard base and a sealing ring made of closed cell rubber. Taking into consideration the environmental conditions that are permissible for the detector to be used, it can be used in wet rooms, or anywhere where the installation process requires the use of thick cabling. The cable is fed in through the installation case, with the detector base only being attached to the case after cable has been fed in, using the screws supplied. A 6 pole terminal block is used for connecting the fire alarm cabling, and an additional 4 pole terminal block can be clipped into the dedicated snap-fit holder, if required, to form additional isolation points. The sealing ring is inserted between the detector and the USB 501-3 base.

Areas for use:	wet rooms
Installation type:	Surface mounting
Connection:	screw-type terminals, max. 2 x 1,5 mm ²
Protection category:	IP 54
Ambient temperature:	-20° to +70°C
Relative air humidity:	short time/without condensation 95% rel/F continuous/without condensation 70% rel/F
Dimensions:	Ø 123 mm, unit height: 53 mm
Case colour:	white
Case material:	ABS / PC, FR90
Weight:	200 g
VdS-approval:	G204008, G297047, G297049



Type: USB 501-4
N°: FG030137

Detector base for installation in concrete USB 501-4

The USB501-4 is designed for connecting all Integral loop technology automatic detectors, and is constructed in such a way that it can be fitted into the formwork and can then be set in concrete. The USB 501-4 consists of a concrete installation case, a fitting ring with collar and sealing unit, a bezel ring and a standard USB 501-1 base. Installation tubing is connected to the base via the concrete installation case. The detector base can only be fitted once the concrete has set and the cables have been installed into the fitting ring. A 6 pole terminal block is used for connecting the fire alarm cabling, and an additional 4 pole terminal block can be clipped into the dedicated snap-fit holder, if required, to form additional isolation points. The bezel ring is used to cover the collar and is fitted at the same time as the detector.

Areas for use:	dry rooms
Installation type:	countersunk installation in concrete
Connection:	screw-type terminals, max. 2 x 1,5 mm ² Pro-
Protection category:	IP 44
Ambient temperature:	-20° to +70°C
Relative air humidity:	short time/without condensation 95% rel/F continuous/without condensation 70% rel/F
Dimensions:	Ø 158 mm, unit height: ca. 92mm
Case colour:	white
Case material:	ABS / PC, FR90
Weight:	130 g
VdS-approval:	G204008, G297047, G297049



Type: LKM 531
N°: FG030191

Ventilation duct detector LKM 531

For use in places where there is a high airspeed and strong smoke dispersal e.g. air conditioning and ventilation ducts. The LKM 531 comprises of a plastic case with a built-in SSD 531K smoke detector and is equipped for use in ventilation ducts between 15cm and 1m in size and in circular ducts with a diameter of 20cm to 1m. It can be used where the airflow speeds are between 1m/s and 20m/s. The case has a clever cover, so that the smoke detector's alarm LED can be seen externally. The detector, detector base, as well as all stopped and sealers are supplied with the unit as standard.

Operating voltage:	15 to 30 V DC
Power consumption:	190 μ A
Areas for use:	ventilation ducts
oblong ventilation duct:	side lengths 15 cm to 1 m
round ventilation ducts:	diameter 20 cm to 1 m
Dimensions without pipe:	100 x 250 x 135 mm (HxWxD)
Ventilation pipe length:	140 to 345 mm
Apertures for fittings:	
for inlet/outlet pipe:	2 x \varnothing 28-30 mm / 150 mm distance
for fastening the case:	2 x max. \varnothing 6 mm / 206 mm distance
Cable entry points:	4 x \varnothing 6-10 mm
Colour:	blue / transparent
Material:	PC / anodised aluminium pipe
Suitable for detector type:	SSD 531K
Airflow speed:	1 to 20 m/s
Protection category:	IP 54
Weight:	without pipe: ca. 392 g with pipe: ca. 485 g
VdS-approval:	G206086



Type: SSD 531K
N°: FG030189

Optical smoke detector SSD 531K for LKM 531

Only for use in the LKM 531 ventilation duct detector. The SSD 531K is shipped as standard with the LKM 531, the order number is listed only for ordering replacement parts.

Operating voltage:	15 to 30 VDC
Quiescent current:	250 μ A max.
Alarm current:	20 mA max.
Usable detector base:	USB 501-1 in LKM 531
Function principle:	Scattered light (Tyndall effect)
Signal transmission:	serial, 2 wire technology
Protection category:	IP 54 in LKM 531
Ambient temperature:	-20° to +60°C
Sensitivity:	0,14 dB/m (EN 54-7)
Dimensions:	\varnothing 118 mm, unit height: 67,5 mm
Case colour:	pure white with blue ring
Case material:	ABS / PC, FR90
Weight:	105 g
VdS-approval:	G206086

3.2 Manual call points



IP52 version:
Type: MCP535-0007
N°: FG030220

IP54 version:
Type: MCP535-0008
N°: FG030221

Manual call point MCP 535 red

For manual actuation of a fire alarm, suitable for connection to Integral loop technology with integrated short circuit isolator. The alarm is triggered by smashing the glass panel and pressing the button. The push button remains locked, and the actuated state is indicated by means of the built-in LED.

Operating voltage:	15 to 30 VDC
Quiescent current:	275 μ A
Alarm current:	20 mA max.
Function principle:	Manual call point (type B acc. EN 54-11)
Signal transmission:	serial, 2 wire technology
Connection:	screw clips, max. 1,5 mm ²
Protection category:	IP 52 or IP 54
Ambient temperature:	-20° to +50°C
Dimensions:	134 x 134 x 36 mm
Case:	red plastic (RAL 3001)
Weight:	450 g
VdS-approval:	G299035
CPD-certificate:	0786-CPD-20285

Replacement parts & accessories

	Type	No.
Hand symbol sticker for MCP 535	MCP535 AK	FG030230
Replacement glass panel for MCP 535	MCP535 GLAS	FG030231
Key for MCP 535	DKM SCHL	FG020015



Type: MCP535-0009
N°: FG030226

Manual call point MCP 535 blue

For manual actuation of a fire alarm, suitable for connection to Integral loop technology with integrated short circuit isolator. The alarm is triggered by smashing the glass panel and pressing the button. The push button remains locked, and the actuated state is indicated by means of the built-in LED. Labelling is done individually using stickers.

Operating voltage:	15 to 30 VDC
Quiescent current:	275 μ A
Alarm current:	20 mA max.
Function principle:	Manual call point (type B acc. EN 54-11)
Signal transmission:	serial, 2 wire technology
Connection:	screw clips, max. 1,5 mm ²
Protection category:	IP 52
Ambient temperature:	-20° to +50°C
Dimensions:	134 x 134 x 36 mm
Case:	blue plastic (RAL 5005)
Weight:	450 g
VdS-approval:	G299035

Replacement parts & accessories

	Type	No.
Hand symbol sticker for MCP535	MCP535 AK	FG030230
Labelling strip for MCP 535	MCP535 BGD	FG030232
Replacement glass panel for MCP 535	MCP535 GLAS	FG030231
Key for MCP 535	DKM SCHL	FG020015
Sealing rubber for MCP 535	DKM MCP535 DG	FG030158



Type: MCP535-0011
N°: FG030225

Manual triggering device MCP 535

For manually triggering an extinguishing operation using gas extinguishing agents conformant to EN 12094-3. The extinguishing system is triggered by smashing the glass panel and pressing the button. The push button remains locked, and the actuated state is indicated by means of the built-in LED. The manual triggering device is suitable for connection to Integral loop technology and contains an integrated short circuit isolator. Labelling is done individually using stickers.

Operating voltage:	15 to 30 VDC
Quiescent current:	275 μ A
Alarm current:	20 mA max.
Function principle:	Manual call point (type B acc. EN 54-11)
Signal transmission:	serial, 2 wire technology
Connection:	screw clips, max. 1,5 mm ²
Protection category:	IP 52
Ambient temperature:	-20° to +50°C
Dimensions:	134 x 134 x 36 mm
Case:	yellow plastic (RAL 1003)
Weight:	450 g
VdS-approval:	G206077
CPD-certificate:	0786-CPD-20237

Replacement parts & accessories

	Type	No.
Hand symbol sticker for MCP535	MCP535 AK	FG030230
Labelling strip for MCP 535	MCP535 BGD	FG030232
Replacement glass panel for MCP 535	MCP535 GLAS	FG030231
Key for MCP 535	DKM SCHL	FG020015
Sealing rubber for MCP 535	DKM MCP535 DG	FG030158



Type: MCP535-0014
N°: FG030227

Stop device MCP 535

To manually interrupt an extinguishing process during the pre-warning period conformant to EN 12094-3. Triggering then occurs indirectly, i.e. after the glass panel has been smashed, the control element must be pushed in order to interrupt the triggering of the extinguishing operation. The control element does not lock. The stop device is suitable for connection to Integral loop technology and contains an integrated short circuit isolator. Labelling is done individually using stickers.

Operating voltage:	15 to 30 VDC
Quiescent current:	275 μ A
Alarm current:	20 mA max.
Signal transmission:	serial, 2 wire technology
Connection:	screw clips, max. 1,5 mm ²
Protection category:	IP 54
Ambient temperature:	-20° to +50°C
Dimensions:	134 x 134 x 36 mm
Case:	blue plastic (RAL 5005)
Weight:	450 g
VdS-approval:	G206078
CPD-certificate:	0786-CPD-20238

Replacement parts & accessories

	Type	No.
Hand symbol sticker for MCP535	MCP535 AK	FG030230
Labelling strip for MCP 535	MCP535 BGD	FG030232
Replacement glass panel for MCP 535	MCP535 GLAS	FG030231
Key for MCP 535	DKM SCHL	FG020015
Sealing rubber for MCP 535	DKM MCP535 DG	FG030158



Type: MCP WSG
N°: FG030235

Weather protection case for MCP 535

To further protect MCP 535 series manual call points from water ingress on the top or back side when used in difficult environmental conditions (outdoors). The weather resistant case has four drill holes on it to allow it to be screwed in with manual call points.

Material:	1 mm steel sheet
Dimensions:	184 x 160 x 100 mm (WxHxD)
Colour:	red RAL 3000

**Red:****Type: SCHRACK MCP545-1****N°: FG030320****Yellow:****Type: SCHRACK MCP545-1Y****N°: FG030350****Red:****Type: SCHRACK MCP545-2****N°: FG030321****Yellow:****Type: SCHRACK MCP545-2Y****N°: FG030351****Red:****Type: SCHRACK MCP545-3****N°: FG030322****Yellow:****Type: SCHRACK MCP545-3Y****N°: FG030352****Red:****Type: SCHRACK MCP545-4****N°: FG030323****Yellow:****Type: SCHRACK MCP545-4Y****N°: FG030353**

Manual call point MCP 545

MCP 545-x manual call points are used to manually trigger a fire alarm and are suitable for connection to Integral loop technology (type A according to EN 54-11). The four different versions differ from one another solely in terms of their case form (IP protection class), with the electronic circuitry, connection and how they function being the same for all types. All MCP 545 units contain a short circuit isolator and a red alarm LED.

The alarm is triggered by smashing the glass panel, with the alarm remaining in alarm condition until a new glass panel is inserted. A test key for checking whether the unit is functioning properly is supplied with the unit, but the glass panel must be ordered separately.

The MCP 545-1 is suitable for use indoors and is for surface mounting. The case is fixed to the wall using two screws, whilst the points for attaching the key section must be horizontal. Cable inlets required for surface mounting must be drilled into the case as required.

The MCP 545-2 is suitable for use indoors and is fitted straight into a standard size 1 (round or square) countersunk mounting case. The distance between the holes for attaching screws is 60 mm, and must be horizontal.

The MCP 545-3 is suitable for use outdoors (IP55) and is for surface mounting. Cables are fed in from below using an M20 cable gland. The detector case is fixed to the wall using four screws.

The MCP 545-4 is also suitable for use outdoors and is for surface mounting. The detector is IP 67 (waterproof); with the cables being fed in from above or below using an M20 cable gland. The detector case is fixed to the wall using three screws

Operating voltage:	15 to 30 VDC
Quiescent current:	500 μ A at 30 VDC
Alarm current:	4 mA
Connection:	Screw clips, max. 1,5 mm ²
Signal transmission:	serial, 2 wire technology
Protection category:	MCP 545-1/2: IP 24 MCP 545-3: IP 55 MCP 545-4: IP 67
Ambient temperature:	-20° to +50°C
Case colour:	red RAL 3001, yellow RAL 1003
Case material:	fibreglass reinforced plastic
Weight:	MCP 545-1/2: 160 g/110 g MCP 546-3/4: 370 g/330 g
Approval:	LPC in accordance with EN 54-11, CE

Replacement parts & accessories

	Type	No.
Glass panel	DKM K GLAS	FG030328
Circuit board (replacement part)	DKM LPL MCP545	FG030340
Back panel for surface mounting	DKM K IP24 UT	FG030332
Plastic panel (instead of glass panel)	DKM K GLAS RESET	FG030333
10 pcs test keys (replacement part)	DKM K SCHL	FG030329
Transparent cover	DKM K ABDECK	FG030330
Cover seal	DKM K PLOMB	FG030331



Type: C31
N°: FG020285

Type: C31 LED
N°: FG020286

Manual call point C31 with IP66 protection class

Non-automatic detector for use outdoors or in damp rooms (type B in accordance with EN 54-11). The standard version contains an integrated 560 Ohm resistor, the necessary terminating resistors 19k1 for connection to the loop module BX-AIM, resp. 11k8 for connection to the module B3-DCI6 are not part of delivery. Built into a robust plastic case protected from dust and water, suitable for surface mounting and countersunk mounting. The detector is available with or without an LED alarm indicator.

Operating voltage:	max. 30 VDC
Operating current:	55 mA
Connection:	screw clips, 0,08 to 2,5 mm ²
Cable entry points:	2 x M20 x 1,5; diameter: 6 - 12 mm
Protection category:	IP 66
Ambient temperature:	-35° to +60°C
Dimensions:	135 x 135 x 61 mm (HxWxD)
Colour:	red RAL 3000
Material:	PC
Weight:	475 g
VdS-approval:	G206113

Replacement parts & accessories	Type	No.
Replacement glass panel	C31 GV	FG020282
Key	DKM SV	FG020289

3.3 Loop modules



Type: BA-OI3
N°: EG072846

Input/output module BA-OI3

Contains a relay output with a programmable fail-safe position, two inputs for querying potential-free contacts (either monitored or non-monitored) and an optocoupler input which can be used for monitoring external voltages. The BA-OI3 is particularly well-suited for connecting special detectors to the Integral loop technology. A plastic case is used to fit the module in the loop circuit, delivery includes four 180 Ohm resistors for the monitored inputs.

Operating voltage:	15 to 27 VDC (from the loop)
Current consumption:	460 μ A typ.
Signal transmission:	serial, 2 wire technology
Relay output:	bistable change-over contact 230 V/2 A, (max. 60 W)
Monitored inputs:	for potential-free contacts
Optocoupler input:	Querying potentially-charged signals, or external voltages of 0-30 VDC
on:	Connection: screw clips, max. 1,5 mm ²
Short circuit isolator:	integrated
Protection category:	IP 66 with case
Ambient temperature:	-20° to +60°C
Relative air humidity:	5 to 95%, without condensation
Dimensions:	67x67x20 mm (case: 94x94x57 mm)
Case:	Polystyrol, halogen-free, grey RAL 7035
VdS-approval:	G204021
CPD-certificate:	0786-CPD-20423



Type: BX-AIM
N°: EG072947

Input modul BX-AIM

Can be configured as a monitored input for querying potential-free contacts or as a collectively addressable detector zone (DC technology). The monitored input can, if required, be used as a “standard extinguishing interface” in accordance with VdS directives, additionally it contains a feature for comparing fault thresholds with the quiescent current levels (conformant to standards EN 54-13 and VdS 2489). By interconnecting a safety barrier and by using intrinsically safe detectors it is also possible to monitor hazardous areas. A plastic case is used to fit the module in the loop circuit, supplied including an alarm resistor (560 Ohm) and a terminating resistor (19k1).

Operating voltage:	10 to 29 VDC (from the loop)
Current consumption:	without DC branch: typ 460 μ A with DC branch: typ. 1800 μ A
Signal transmission:	serial, 2 wire technology
Function:	DC branch module, monitored input
Connection:	screw clips, max. 1,5 mm ²
Short circuit isolator:	integrated
Protection category:	IP 66 with case
Ambient temperature:	-20° to +60°C
Relative air humidity:	5 to 95%, without condensation
Dimensions:	67x67x20 mm (case: 94x94x57 mm)
Case:	Polystyrol, halogen-free, grey RAL7035
VdS-approval:	G208138
CPD-certificate:	0786-CPD-20601



Type: BA-IOM
N°: EG072842

Input/output module BA-IOM

Contains a short circuit-proof monitored output and a galvanically isolated input, with the power supply on the loop also being internally monitored for undervoltage. A plastic case is used to fit the module in the loop circuit.

Operating voltage:	15 to 27 VDC (from the loop)
Current consumption:	460 μ A typ.
Signal transmission:	serial, 2 wire technology
Function:	1 short circuit resistant monitored output, 1 optocoupler input
Connection:	screw clips, max. 1,5 mm ²
Monitored output:	loads of 20 Ω to 1k Ω , 3 load ranges max. output current 1.5A short-circuit-proof Quiescent current 1 to 15 mA via jumpers
Optocoupler input:	IN+: 0 - 30 V; input resistance: 4.9 k Ω VEXT: 0 - 30 V; input resistance: 10 k Ω max. wiring length: 1000 m each
Short circuit isolator:	integrated
Protection category:	IP 66 with case
Ambient temperature:	-20° to +60°C
Relative air humidity:	5 to 95%, without condensation
Dimensions:	67x67x20 mm (case: 94x94x57 mm)
Case:	Polystyrol, halogen-free, grey RAL7035
VdS-approval:	G204055
CPD-certificate:	0786-CPD-20428



Type: BA-REL4
N°: EG072841

Relay module BA-REL 4

Contains 4 relays each containing a potential-free double-throw contact with a fail-safe condition, with the power supply on the loop circuit also being internally monitored for undervoltage. A plastic case is used to fit the module in the loop circuit.

Operating voltage:	15 to 27 VDC (from the loop)
Current consumption:	460 μ A typ.
Signal transmission:	serial, 2 wire technology
Function:	4 potential-free relay outputs
Connection:	screw clips, max. 1,5 mm ²
Relay output connection:	screw clips, max. 2,5 mm ²
Length of wires:	100 m max.
Short circuit isolator:	integrated
Protection category:	IP 66 with case
Ambient temperature:	-20° to +60°C
Relative air humidity:	5 to 95%, without condensation
Relay output:	bistable change-over contact
Switching power:	230 V AC/0,25 A or 24 V DC/2 A (max. 60 W)
Switching Frequency:	3.125 Hz max.
Pulse emission:	200ms- 25 s in 100 ms intervals
Dimensions:	100x67x20 mm (case: 130x94x57 mm)
Case:	Polystyrol, halogen-free, grey RAL7035
VdS-approval:	G204054
CPD-certificate:	0786-CPD-20426



Type: BA-IM4
N°: EG072844

Input module BA-IM4

Contains four inputs for the monitored and non-monitored querying of potential-free contacts. The operating mode can be set and is set separately for every input by means of software. The inputs are suitable for detecting switching states of longer than 330ms, and for connecting the module to the loop circuit, a plastic case is used. Shipped including 8 pcs. 182 Ohm resistors for the monitored inputs.

Operating voltage:	15 to 27 VDC (from the loop)
Current consumption:	460 μ A typ.
Signal transmission:	serial, 2 wire technology
Function:	4 inputs for monitored/non-monitored querying of potential-free contacts
Connection:	screw clips, max. 1,5 mm ²
Short circuit isolator:	integrated
Protection category:	IP 66 with case
Ambient temperature:	-20° to +60°C
Relative air humidity:	5 to 95%, without condensation
Dimensions:	67x67x20 mm (case: 94x94x57 mm)
Case:	Polystyrol, halogen-free, grey RAL7035
VdS-approval:	G204056
CPD-certificate:	0786-CPD-20427



Type: BA-RGW
N°: FG030170

Radiogateway BA-RGW

The radio gateway serves as a receiver unit for all wireless fire detectors for connection into Integral loop technology and comprises of 3 components, which must be ordered separately: Radio gateway including case (FG030170), BA-RFM radio module (FG030171) and a 9V battery (FG030173). The radio module is connected to the radio gateway's circuit board and is used to communicate with the radio-linked detectors. Module BA-RGW is supplied with power from the loop circuit, with the 9V battery being used for the commissioning process or for ensuring the continuity of the power supply during maintenance.



Radio module:
Type: BA-RFM
N°: FG030171



Type: BATT FM
N°: FG030173

Operating voltage:	20 to 27 VDC
Current consumption:	950 μ A typ.
Interface for radio module:	20 pin 2 rowed multipoint connector
Buffer battery:	9 V Lithium (operating lifetime: > 5 years)
Frequency range:	868 to 870 MHz
Transmitter power:	max. 5 mW
Detectors:	max. 30 can be connected
Range in buildings:	up to 40 metres with intervisibility
Aerial:	double integrated aerials
Short circuit isolator:	integrated
Protection category:	IP 54 with case
Ambient temperature:	-10° to +55°C
Relative air humidity:	5 to 95%, without condensation
Dimensions:	93 x 70 x 24 mm (HxWxD)
Case:	Polystyrol, halogen-free, grey RAL7035
Dimensions case:	120 x 80 x 57 mm (HxWxD)
VdS-approval:	G204053
CPD-certificate:	0786-CPD-20425



Case for loop modules

Description	Type	No.
Case for loop modules IP 66	GEH MOD IP66	FG020234
Case for BA-REL4 IP66	GEH MOD2 IP66	FG020235
Extension connection joint M16	MM ANB M16	MM000185
Stepped nipple M20	MM SN M20	MM000181
Lock nut M16	MM GM M16	MM000186



Type: BA-SOL-R
N°: FG030450 (red)



Type: BA-SOL-W
N°: FG030451 (white)

Loop sounder BA-SOL

Addressable sounder for acoustically signal an alarm inside rooms, suitable for the direct connection to the Integral loop technology. The sounder is available with white or red housing, three different tones can be selected directly from the control panel, the volume level can be adjusted by means of a DIP-switch.

Operating voltage:	15 to 30 VDC
Current consumption:	2,4 mA @ 24 VDC (volume low) 4,8 mA @ 24 VDC (volume high)
Connection:	screw clips, max. 2,5 mm ²
Volume:	89 dB (99 dB) ± 3 dB @ 1 m @ 90°
Possible tones:	DIN 1200 ~ 500 Hz (DIN 33404) Slow Whoop 500 ~ 1200 Hz (EN 2575) Continuous tone 990 Hz (pulse setting can be defined in the control panel)
Short circuit isolator:	integrated
Protection category:	IP 21c
Ambient temperature:	-10° to +55°C
Dimensions:	max. 108 x 96 mm (D x H)
Case colour:	white or red
Case material:	ABS
Weight:	230 g
VdS-approval:	G207151
CPD-certificate:	0786-CPD-20418



Type: BA-FOL-R
N°: FG030452 (red)

Type: BA-FOL-W
N°: FG030453 (white)

Loop flashlight BA-FOL

Addressable flashlight for optical indication of a fire alarm inside rooms suitable for the direct connection to the Integral loop technology. The flashlight is available with white or red housing. Adjusting the flash rate and the light intensity is carried out by means of a DIP-switch.

Operating voltage:	15 to 30 VDC
Alarm current:	6,5 mA @ 24 VDC
Quiescent current:	475 µA
Signal transmission:	serial, 2 wire technology
Connection:	screw clips, max. 2,5 mm ²
Flashing frequency:	0,5 Hz (slow) or 1 Hz (fast)
Short circuit isolator:	integrated
Protection category:	IP 21c
Ambient temperature:	-10° to +50°C
Dimensions:	93 x 93 x 54 mm (HxWxD)
Case colour:	white or red
Case material:	ABS
Weight:	110 g



Type: SBL 501
N°: FG030570

Type: SBL 501-DB
N°: FG030571

Base sounder SBL 501

Addressable base-mounted siren for use in interior rooms (category type A pursuant to EN 54-3). It is fitted together with a detector and the USB 501 detector base and can be connected directly to Integral loop technology. The tone types are set directly at the fire alarm control panel, the required volume can be set by means of DIP switches. In its standard version it is set up for cable inlet from above, with the SBL 501-DB with a higher base being available for cable inlet from the side.

Operating voltage:	15 to 30 VDC
Quiescent current:	0,5 mA
Current consumption:	1,3 mA @ 24 VDC (volume low) 3,9 mA @ 24 VDC (volume high)
Volume:	80 dB (90 dB) ± 3 dB(A)/m @ 24 VDC
Possible tones:	DIN-Tone: 1200 ~ 500 Hz Slow Whoop: 500 ~ 1200 Hz Continuous tone: 880 Hz
Connection:	screw clips, max. 2,5 mm ²
Short circuit isolator:	integrated
Protection category:	IP 31 D
Ambient temperature:	-10° to +55°C
Dimensions (DxH):	114x32 mm (114x36 mm with high base)
Case:	PC-ABS, white RAL 9003
Weight:	ca. 170 g
VdS-approval:	G208159
CPD-certificate:	0786-CPD-20533



Type: SBL 502
N°: FG030572 (white)



Type: SBL 502-R
N°: FG030573 (red)

Cable inlet from the side:

Type: SBL 502-DB
N°: FG030574 (white)
Type: SBL 502-DBR
N°: FG030575 (red)

Platform sounder SBL 502

Addressable platform siren for use in interior rooms (category type A pursuant to EN 54-3), suitable for the direct connection to the Integral loop technology. The tone types are set directly at the fire alarm control panel, the required volume can be set by means of DIP switches. In its standard version it is set up for cable inlet from above, with the SBL 502-DB(R) with a higher base being available for cable inlet from the side.

Operating voltage:	15 to 30 VDC
Quiescent current:	0,5 mA
Current consumption:	1,3 mA @ 24 VDC (volume low) 3,9 mA @ 24 VDC (volume high)
Volume:	80 dB (90 dB) ± 3 dB(A)/m @ 24 VDC
Possible tones:	DIN-Ton: 1200 ~ 500 Hz Slow Whoop: 500 ~ 1200 Hz Continuous tone: 880 Hz
Connection:	screw clips, max. 2,5 mm ²
Short circuit isolator:	integrated
Protection category:	IP 31 D
Ambient temperature:	-10° to +55°C
Dimensions (DxH):	114x32 mm (114x36 mm with high base)
Case material:	PC-ABS
Case colour:	white RAL 9003, red RAL 3001
Weight:	ca. 165 g
VdS-approval:	G208159
CPD-certificate:	0786-CPD-20533

3.4 Accessories



Case:

Type: PIG

N°: FG020093

Electronics:

Type: BA-UPI

N°: EG072848

Parallel indicator BA-UPI

Individual detector indicator for localisation of a fire alarm, if the alarm LED on the detector is not visible (e.g. concealed in false floors or false ceilings etc.). In the event of the detector being activated, the parallel indicator will also be controlled in parallel to the alarm message being sent, and will flash red. The BA-UPI consists of an electronic module with a red LED and a 2 pin screw clip and a case with a triangular lighting prism. The case and electronic circuitry must be ordered separately.

Operating voltage:	6 to 30 VDC
Current consumption:	1 mA typ.
Flashing frequency:	1,8 to 3,4 Hz
Connection:	screw clips, max. 1,5 mm ² to USB 501-x detector base
Protection category:	IP 42
Ambient temperature:	0° to +60°C
Relative air humidity:	5 to 95 % without condensation
Dimensions:	85 x 85 x 30 mm (HxWxD)
Weight:	ca. 50 g



Type: BA-API

N°: EG072849

Base-mounted sounder BA-API

Electronic siren for fitting in the USB 501-x loop technology detector base for local acoustic warnings that there is a fire. The BA-API snaps directly into the detector base and connects directly to its connector clips. If a detector is activated, then module BA-API is triggered as well as the alarm message being sent, with the base-mounted siren emitting an intermittent acoustic alarm signal.

Operating voltage:	6 to 10 VDC
Current consumption:	5 mA typ.
Connection:	detector base USB 501-x
Sound source:	Piezo buzzer
Sound frequency:	3 kHz pulsed, 4 Hz
Volume:	ca. 70 dB @ 1 m
Ambient temperature:	0° to +60°C
Relative air humidity:	5 to 95 % without condensation
Dimensions:	36 x 58 x 13 mm (HxWxD)
Weight:	13 g



Type: SKORB

N°: FG020026

Protective Cage for Detector

White painted metal protective cage (diameter 160 mm x height 110 mm) for preventing detectors from sustaining physical damage. Suitable for all automatic detectors.



Type: G KAPPE 501

N°: FG020189

Transparent rubber cap

Transparent rubber cap made of silicon to protect the USB-501 detector base against moisture. The rubber cap is placed over the USB 501 detector base prior to fitting, in particular in areas where there are difficult environmental conditions where condensation water and moisture can quickly form, in order to prevent moisture from getting into the base.



Type: MON SET GK
N°: MM000250

Fitting set for rubber cap

Consisting of a fitting clip, 2 fixed distance pieces and two M4 x 16 cheese head screws for fitting detector bases in damp rooms. Supplied without detector base.



Type: DBZ1190A-AC
N°: FG020480

Detector heater for USB 501

The detector heater allows the MTD 533 CP multiple sensor detectors with the USB 501 detector base in critical atmospheric conditions, e.g. where there is a risk of icing up or dew formation, in cold stores, walk-in freezers, collectors, attics, cheese cellars, power stations, loading bays etc. By fitting the detector heater the temperature of the multiple sensor detector is increased by approximately 5°C compared with the ambient temperature. An external power supply unit must be used to supply the detector heater with power, as the unit can not be supplied directly from the loop. The detector heater is controlled using the base terminal block for the USB501, with the unit being fastened in the detector base using cable ties.

Operating voltage:	20 to 30 VDC
Residual ripple:	max. 2V
Operating current:	35 to 55 mA
Wattage:	1,2 W
Resistance:	580 Ω
Cable diameter / clip:	2 x 0,5 to 2,5 mm ²
Operating temperature:	-30°C to +40°C

Accessories	Type	No.
Terminal block for USB 501	KL USB 501	FG030132
Cable tie holder unit	MM KBH KL	MM000047



Type: STBLECH
N°: FG020205
Type: STBLECH G
N°: FG020206

Baffle plate for riser cable shafts

Hot galvanized, 1.2 mm thick sheet steel with drill holes for installation and cable inlet for fitting smoke detectors in riser shafts, in order to improve the detector's detection properties.

Dimensions:	FG020205: 130 x 130 mm galvanised
	FG020206: 300 x 300 mm galvanised



Type: MMK 200/350
N°: FG020520

MMK 200/350 detector fitting console

The console can be tilted from 0° to 90° and height can be adjusted between 200 and 350 mm. The detector is attached using 2 M4 screws. Both USB 501 and Hochiki bases can be fitted on to the console.

Adjustable height:	200 to 350 mm with 4 mm Allen key
Angle of tilt:	0° to 90° with 3 mm Allen key
Material:	Sheet steel, powder coated
Colour:	light grey (RAL 7035)
Dimensions:	175 x 105 x 200 to 350 (LxWxH)

3.5 Test devices



Type: UTP3
N°: FG030200

Type: UTP4
N°: FG030201

Type: UTP V
N°: FG030208



Type: UTP3 30kV
N°: FG030209

Type: UTP10 30KV
N°: FG030210



Type: PRUEFGAS
N°: FG030117



Type: SDT HEAD
N°: FG030202

Telescopic bar UTP

Locking telescopic bar, suitable for all Schrack detector removers and testing equipment. Available in three and four metre length variations.

	UTP3	UTP4
Length:	3 m	4 m
For installation heights up to:	4,5 m	5,5 m
Transportation length:	1,7 m	2,2 m
Weight:	1 kg	1,2 kg

Extension for Telescopic Bar UTP

Extension (1.3m) for telescopic bars UTP3 and UTP4, which extend the reach of telescopic bars UTP3 and UTP4 by 1.5m metres each (to approx. 6 m and 7 m respectively).

Telescopic bar 30kV

Telescopic bar with voltage sustaining capability of up to 30kV, for installation heights of up to 4.5m. Suitable for use with all Schrack detector removers and testing devices.

Length:	3 m
Transportation length:	1,7 m
Weight:	2,2 kg

Telescopic bar 11m/30kV

Telescopic bar with voltage sustaining capability of up to 30kV, for installation heights of up to 11m. Suitable for use with all Schrack detector removers and testing devices.

Length:	max. 11 m
Transportation length:	1,7 m
Weight:	3,9 kg

Testing gas 918/5 for smoke detectors

To test whether automatic smoke detectors are working properly. Only this type of gas may be used, as using any other type of gas can lead to the measuring chamber in the detector being damaged. The test aerosol does not contain halogenated hydrocarbons (CFCs or similar).

Holder unit for testing gas 918/5

Holder for bottle of testing gas (FG030117). Suitable for carrying out function tests of all Integral loop technology automatic smoke detectors when the alarm filter has been deactivated (revision mode).



Type: UDR 533A
N°: FG030240



Type: UDR 533S
N°: FG030241

with cardan joint:
Type: UDR 533K
N°: FG030242

Detector remover UDR 533

For removing and replacing the MTD 533 automatic detector in/from the USB 501 detector base. The UDR 533 A is used to change detectors and can be used in the UDR 531K detector remover (for SSD 531, UTD 531 and STD 531). Detector removers UDR 533S and UDR 533K can be fitted on to UTP series detector remover bars, with the UDR 533K detector remover also being suitable for remote fitting and removal of the detector thanks to its cardan joint.

	Dimensions	Weight
UDR 533A	62 x 71 x 98 mm	150 g
UDR 533S	100 x 100 x 232 mm	200 g
UDR 533K	160 x 170 x 232 mm	530 g

Replacement part	Type	No.
Replacement rubber for UDR 533	UDR 533 G	FG030243



Type: TESTIFIRE 1001
N°: FG030280



Type: TS3
N°: FG030282



Type: SOLO 725
N°: FG030284

Detector testing device TESTIFIRE 1001

Combination testing device for smoke and temperature testing of automatic fire detectors. Thanks to the combination of different functions in a single device, it is possible to test not only optical smoke detectors, but also temperature detectors (maximum temperature or temperature change) and multiple sensor detectors simply and efficiently.

The device is battery operated and is completely user friendly and environmentally friendly. The testing agent required for the smoke and temperature test is contained in a cartridge that can be easily replaced. Two rod-shaped rechargeable cells and a charger are supplied as standard.

Power source:	rechargeable battery 7,2V / 2,2 Ah NiMH
Battery charge time:	75-90 min. (if completely discharged)
Operating temperature:	+5°C to +45°C
Protection category:	IP 20
Weight:	0,75 kg
Dimensions:	224 x 153 mm (H x D)

Accessories/Replacement parts	Type	No.
Adapter f. teleskopic bar	UTP SOL	FG030281
Smoke capsule for Testifire	TS3	FG030282
Battery baton for Testifire	SOLO 720	FG030283
Universal fast battery charger for Testifire	SOLO 725	FG030284



Type: LAI
N°: FG050606

Loop Assistant Interface LAI

If the Loop Assistance Interface, a service PC and the necessary software are all present, then it is possible to check and program (assignment of logical addresses) Integral loop technology on-site even if there is no fire alarm control panel. The programming is saved on the service PC and then transferred to the fire alarm control panel thereafter. The LAI consists of a case, modules, master control unit, power supply unit, operating panel and batteries (to permit operation for up to 4 hours) and is supplied in a red impact-resistant plastic case including a power connection cable.

Connection:	max. two loop circuits each with max. 127 elements
Programming interface:	Service PC via RS 232
Range:	max. 15 m
Batteries:	2 pcs lead cells, Varta type CF12-1.2
Battery capacity:	24 V / 1,2 Ah
Protection category:	IP 20
Ambient temperature:	0° to +50°C
Dimensions:	440 x 310 x 100 mm (HxWxD)
Weight:	8 kg

Accessories	Type	No.
Service PC cable	KAB SPC	FG81719



Type: STB 01
N°: FG030215

Loop circuit testing device STB 01

Testing device to check the Integral loop technology installation (without fire alarm control panel attached) with step-by-step and fully automatic modes. Supplied complete with power supply and connection plug.

4 Hazardous Areas



Type: SLR-E-IS
N°: FG020070

Base:
Type: YBN-R/4IS
N°: FG020071

Optical smoke detector for hazardous areas SLR-E-IS

The SLR-E-IS optical smoke detector is for use specifically in hazardous areas with a risk of explosion and is connected using the YBN-R/4IS detector base with an interconnected safety barrier either to the BX-AIM loop circuit module or to Integral DC technology circuits. A consistent response is guaranteed with all EN 54 smoke aerosols due to its specially designed smoke chamber. The detector contains 2 LEDs positioned opposite one another for indicating an alarm and is approved for use in class 1 and 2 hazardous areas.

Operating voltage:	15 to 30 VDC
Quiescent current:	50 μ A
Alarm current:	max. 50 mA
Ambient temperature:	-10° to +55°C
Max. air humidity:	95% non-condensing (at +40°C)
Diameter:	100 mm
Unit height with base:	46 mm
Colour:	ivory white
Material:	ABS
Weight:	115 g without base 160 g with base
Marking:	EX II 1G EEx ia IIC T5
Approval:	BAS 01 ATEX 1281
CPD-certificate:	0832-CPD-0113



Type: DCD-1E-IS
N°: FG020072

Base:
Type: YBN-R/4IS
N°: FG020071

Temperature detector for hazardous areas DCD-1E-IS

The DCD-1E-IS temperature detector is a conventional class 1 maximum and change in temperature detector, with an additional fixed alarm threshold at 60°C and is designed especially for use in hazardous areas. The DCD-1E-IS is connected using the YBN-R/4IS detector base with an interconnected safety barrier either to the BX-AIM loop circuit module or to Integral DC technology circuits. The detector contains 2 LEDs positioned opposite one another for indicating an alarm and is approved for use in class 1 and 2 hazardous areas.

Operating voltage:	15 to 30 VDC
Quiescent current:	35 μ A
Alarm current:	max. 50 mA
Ambient temperature:	-10° to +55°C
Max. air humidity:	95% non-condensing (at +40°C)
Diameter:	100 mm
Unit height with base:	46 mm
Colour:	ivory white
Material:	Polycarbonate
Weight:	95 g without base 140 g with base
Marking:	EX II 1 G EEx ia IIC T5
Approval:	BAS 01 ATEX 1021
CPD-certificate:	0832-CPD-0121



Type: DF 1101EX

N°: FG020362

Infrared flame detector DF 1101Ex for hazardous areas

Intrinsically safe infrared flame detector for use in zone 1 and zone 2 hazardous areas with a risk of explosion. The DF1101Ex is suitable for the detection of smokeless liquid and gas fires, as well as open fires with smoke formation, which arise from the burning of materials containing carbon. The detector is suitable for use both indoors and outdoors.

Operating voltage:	16 to 28 VDC
Quiescent current:	500 µA
Field of detection:	90°
Monitoring area:	27 m at 0° viewing angle (standard) 46 m at 0° viewing angle (raised)
Protection category:	IP 67
Ambient temperature:	-25° to +70°C
Relative air humidity:	100% (no strong build-up of dew)
Case:	die cast Aluminium, white
Dimensions incl. base:	135 x 135 x 77 mm (HxWxD)
Weight incl. base:	750 g
Marking:	EEx ib IIC T4
Approval:	PTB 02 ATEX 2161
VdS-approval:	G299085
CPD-certificate:	0786-CPD-20497

Accessories	Type	No.
Base for DF1101Ex	DFB 1190	FG020363
Installation bracket 45° for DF1101Ex	MV1	FG020364



Type: DKM EX

N°: FG020287

Type: DKM EX END AIM

N°: FG020291

Type: DKM EX END DCI

N°: FG020288

Manual call point for use in hazardous areas

Manual call point in a sealed casing for use in hazardous areas, built into a robust plastic case protected from dust and water, suitable for surface mounting and countersunk mounting. Available in a standard model (FG020287), as a terminal detector for connection to BX-AIM branch module (FG020291) or as a terminal detector for connecting to Integral DC technology (FG020288). Supplied with cable glands and blanking stoppers.

Operating voltage:	to 30 VDC
Operating current:	max. 100 mA
Dissipation:	max. 1,6 W
Connection:	screw clips, 0,5 to 2,5 mm ²
Cable entry points:	2 x M 20, Ø 6 - 12 mm 1 x M 20 blanking stopper
Protection category:	IP 66
Ambient temperature:	-20° to +40°C
Dimensions:	145 x 135 x 70 mm
Colour:	red RAL 3000
Case material:	PA 12 (Vestamid ®)
Front door material:	PA 6
Weight:	800 g
Ignition protection class:	EX II2G, EEx dme IIC T6
Approval:	TÜV 01 ATEX 1729
VdS-approval:	G295026

Replacement parts	Type	No.
Replacement glass panel	DKM GV	FG020290
Key	DKM SV	FG020289



Type: DKM WRIS 2072/SR-560
N°: FG030324



Type: DKM WRIS 2072-560
N°: FG030325



Type: DKM WRIS 7/2072-560
N°: FG030326



Type: DKM WRIS 4072-560
N°: FG030327

Manual call point WRIS for hazardous areas

The WRIS manual call point conforms to standard EN 54-11 (type A) and Atex 100a and is available in four different models. All four are suitable for connection to Integral loop technology where there is a BX-AIM branch module and a safety barrier interconnected. The alarm is triggered by smashing the glass panel, with the alarm remaining in alarm condition until a new glass panel is inserted. A test key is available for checking whether the unit works.

The WRIS 2072/SR-560 is suitable for use indoors and is for surface mounting. The case is fixed to the wall using two screws, whilst the points for attaching the key section must be horizontal. Cable inlets required for surface mounting must be drilled into the case as required.

The WRIS 2072-560 is suitable for use indoors and is fitted straight into a standard size 1 (round or square) countersunk mounting case. The distance between the holes for attaching screws is 60 mm, and must be horizontal.

The WRIS 7/2072-560 is also suitable for use outdoors and is for surface mounting. Cables are fed in from below using an M20 cable gland. The detector case is fixed to the wall using four screws.

The WRIS 4072-560 is also suitable for use outdoors and is for surface mounting. The detector is IP 67 (waterproof); with the cables being fed in from above or below using an M20 cable gland. The detector case is fixed to the wall using three screws.

Operating voltage:	15 to 30 VDC
Quiescent current:	ca. 900 µA
Alarm current:	5 mA
Connection:	via BX-AIM loop circuit module and Z787 safety barrier
Protection category:	WRIS 2072: IP 24 WRIS 7/2072: IP 55 WRIS 4072: IP 67
Ambient temperature:	-30° to +70°C
Case colour:	red, RAL 3001
Case material:	fibreglass reinforced plastic
Weight:	WRIS 2072/SR-560: 160 g WRIS 2072-560: 110 g WRIS 7/2072: 370 g WRIS 4072-560 330 g
Marking:	EX II 1 G EEx ia IIC T4
Approval:	BAS 00 ATEX 1245X

Replacement parts & accessories

	Type	No.
Glass panel	DKM K GLAS	FG030328
Back panel for surface mounting	DKM K IP24 UT	FG030332
Plastic panel	DKM K GLAS RESET	FG030333
Test key	DKM K SCHL	FG030329
Transparent cover	DKM K ABDECK	FG030330
Cover seal	DKM K PLOMB	FG030331



Type: EXBAR 02
N°: FG020121

Safety barrier Z787

The safety barriers for intrinsically safe detector zones prevent too high an energy level from entering a hazardous area, which could cause ignition sparks if discharged there. The barrier is connected in series into the wiring of the detector zone, and is tested and approved in accordance with the requirements of ATEX 100a for use in hazardous areas.

Rated operational voltage:	max. 28 V
End-to-end resistance:	285 Ω, max. 340 Ω
Operating current:	35 mA
Total length of wiring:	max. 700 m
Max. short circuit current:	93 mA
Max. external capacity:	0,07 μF / 0,5 μF (IIC/IIB)
Max. external inductance:	4 mH / 15 mH (IIC/IIB)
Ambient temperature:	-20° to +60°C
Marking:	EX II 3 G EEx n A II T4
Approval:	TÜV 99 ATEX 1484 X BAS 01 ATEX 7005

Accessories	Type	No.
Case for safety barrier	EXBAR G	FG020432



Type: Z787F
N°: FG020430

Safety barrier Z787F

Identical in function and construction to the Z787 safety barrier, but contains an integrated series fuse carrier in the safe part. The barrier is intended for use in exposed surroundings, where overvoltages, lightning strikes, voltage changes etc. could lead to the ex barrier being destroyed. The selective series fuses prevent the internal fuses from being destroyed and can be replaced.

Rated operational voltage:	max. 28 V
End-to-end resistance:	327 Ω, max. 363 Ω
Operating current:	35 mA
Total length of wiring:	max. 350 m
Max. short circuit current:	93 mA
Max. external capacity:	0,07 μF / 0,5 μF (IIC/IIB)
Max. external inductance:	4 mH / 15 mH (IIC/IIB)
Marking:	EX II 3 G EEx n A II T4
Approval:	TÜV 99 ATEX 1484 X BAS 01 ATEX 7096

Replacement parts & accessories	Type	No.
Replacement fuse	50 mA F 5x20	FG020431
Case for safety barrier	EXBAR G	FG020432



Type: GEH EXB
N°: FG020432

Case for safety barrier

Case with a built-in 35mm fitting bracket for fitting up to 3 Z787 or Z787F safety barriers. When fitting only one safety barrier, the protective conductor terminal needed can also be fitted in the case. Shipped including three M40 stoppers. The case contains ten M32/40 cable inlets, and the fastening bracket and two screws must be ordered separately.

Installation type:	surface mounting
Number of inlets:	10
Nominal diameter:	25 mm ²
Measured isolating voltage Ui:	690 V
Can be sealed:	yes
Ambient temperature:	-40 to +70° C
Protection category:	IP 65 / IP 55 with M40 stoppers
Halogen-free:	no
Colour:	light grey (RAL 7035)
Material:	plastic
Dimensions:	200 x 160 x 98 mm (HxWxD)

Accessories	Type	No.
Mounting bracket	GEH EXBW	FG020433
Self-tapping screws 4 x 8		MS0000400

5 Management System SecoLOG

The SecoLOG fire alarm management system is a multilocation graphical control system which is used to monitor the state of and operate Schrack Seconet fire alarm systems from a central location. All messages and states of attached fire alarm control panels are displayed using a clear graphical user interface. The system is operated using a mouse and keyboard. SecoLOG was developed in Austria and has been tested and approved in accordance with applicable Austrian Standard ÖNORM F3003 (fire alarm management systems)..



Features

- Simple standardised operation of fire alarm systems using messages and commands (controlling fire alarm systems and fire alarm devices).
- Maximum reliability
- Single and multiple location operating modes
- Compatible with all Schrack fire alarm systems
- Can be extended on a modular basis
- Clear 2 monitor user interface with automatic switchover in the event of a fault
- High performance graphic representation with dynamic zoom function
- Hierarchical password system with individually assigned access privileges and passwords
- The user interface language can be changed whilst the system is still online
- Alarm print out, messages and reaction texts can be individually configured
- Automatic backup of data providing an online backup
- All connected fire alarm systems and wiring is monitored
- Continuous logging - with note and reports functions
- Events can be displayed and the system operated either using symbols or text fields in the building floor plan
- Fastest print out times for graphical representations of the alarm and reaction texts
- Floor plans for reaction diagrams can be imported from all current graphics and CAD programs
- Data can be received from detectors to allow automatic positioning and assignment (autoconfiguration)
- Configurable processes and control processes can be triggered manually or automatically
- Tested and approved in accordance with Austrian Standard ÖNORM F 3003

System Requirements

- PC with AMD or Intel Pentium Processor (min. 1.5 GHz) and 256 MB RAM (512 MB recommended)
- 2 mirrored hard drives, each with at least 2 GB
- Microsoft Windows 2000/XP operating system
- Hard disk controller for RAID 1 operation (mirroring)
- 10/100 Mbit network adapter
- Dual output graphics card with at least 32 MB RAM (minimum resolution 2560 x 1024)
- 2 serial COM interfaces and 2 USB interfaces
- 40 speed CD ROM drive
- Mouse and keyboard
- Sound card and speakers
- 2 colour monitors
- Professional colour printer

5.1 SecoLOG software packs



Type: SECOLOG GP
N°: FG022000

SecoLOG software licence – entry level version

Software licence for connecting, displaying and controlling up to 2,000 devices on the attached fire alarm control panel (e.g. detectors, controller devices etc.), incl. CD containing the required software, as well as the basic configuration for the workstation. The dongle which is required to operate the software is also supplied.

Type: SECOLOG SW EP1
N°: FG022001

SecoLOG software licence - expansion pack

Expansion pack for the SecoLOG entry level software license to expand it by 1000 elements.

Type: SECOLOG NWG
N°: FG022010

SecoLOG network licence

For one workstation when SecoLOG systems are used in multiple location.

Type: SECOLOG GP 750
N°: FG022007

SecoLOG software licence – entry level version 750

For connecting, displaying and controlling up to 750 devices on the attached fire alarm control panel (e.g. detectors, controller devices etc.), incl. CD containing the required software, as well as the basic configuration for the workstation and dongle.

Type: SECOLOG SW EP750
N°: FG022008

SecoLOG software licence - expansion pack 750

Expansion pack for the SecoLOG entry level 750 software license to expand it to control up to 2,000 elements.

5.2 SecoLOG accessories

Type: SECOLOG ELR
N°: FG022040

SecoLOG Workstation

PC including operating system, suitable for SecoLOG operation. Corresponds 100% to SecoLOG's current specification as well as the current state of the art. Information about current system specifications is available on request.

Type: SECOLOG BS19
N°: FG022042

SecoLOG Flat panel monitor

Active TFT matrix monitor (resolution of at least 1280 x 1024 pixels), suitable for use in two monitor operating mode with SecoLOG. Corresponds 100% to SecoLOG's current specification as well as the current state of the art. Information about current system specifications is available on request.

Type: SECOLOG MOD
N°: FG022044

SecoLOG Modem

V.92 analogue modem (bidirectional 56K6) for operating SecoLOG remote diagnostics. The device conforms to telephony standards in Austria.

Type: SECOLOG ISDN
N°: FG022045

SecoLOG ISDN Adapter

ISDN adapter for operating SecoLOG remote maintenance. The device conforms to telephony standards and licenses in Austria.

Type: SECOLOG EPS
N°: FG022046

SecoLOG emergency power supply

Emergency power supply to ensure the integrity of a SecoLOG workstation in the event of a short-term power failure (dependent on system form, for at least 5 minutes).

Type: SECOLOG PC KAB
N°: FG022047

SecoLOG PC cable RS 232/USI

Connection cable for directly connecting the SecoLOG control system computer to B3-USI4 or B4-USI modules via the RS 232 interface. Length: 15 m.

Type: SECOLOG EDR
N°: FG022048

SecoLOG printer

Professional colour printer (at least 12ppm – A4); the print out of an alarm must be completed within 60 seconds (according to Austrian Standard Ö-NORM F3003). Corresponds 100% to SecoLOG's current specification as well as the current state of the art. Information about current system specifications is available on request.

Type: SECOLOG PD KAB
N°: FG022050

SecoLOG printer cable

Connection cable for connecting the printer to the SecoLOG control system computer.

6 Special detectors

6.1 Linear smoke detectors



Type: SPC-E
N°: FG020073



Type: BEAM WH SPBC
N°: FG020125



Type: BEAM DH SPBC
N°: FG020126

Linear smoke detector SPC-E

The linear smoke detector SPC-E comprises of a transmitter and receiver unit, which are fitted between 5 and 100m away from one another. In the event of a fire, the rising smoke reduces the intensity of the infrared ray between the transmitter and receiver and an alarm is sent to the fire alarm control panel. The SPC-E E is particularly reliable where there is a constantly changing ambient temperature or air humidity, is easy to install and set up and excels in particular due to its low power consumption and compact case.

Operating voltage:	15 to 33 VDC
Quiescent current:	250 μ A max.
Alarm current:	50 mA max.
Monitoring length:	5 to 100 m
Signal processing:	8-Bit micro processor
Sensitivity:	can be set to one of 3 levels: 25%, 50%, 60%
Indicators:	LEDs for operation, fault, alarm conditions
Compensation:	contamination of the optical sensor compensated by \pm 1% hourly
Protection category:	IP 42
Ambient temperature:	-10° to + 50°C
Max. air humidity:	95 % non-condensing
Colour:	white
Dimensions:	86 x 100 x 145 (transmitter and receiver)
Weight:	receiver: 685 g transmitter: 600 g
VdS-approval:	G207152
CPD-certificate:	0832-CPD-0547

Accessories

	Type	No.
Mounting bracket for wall mounting	BEAM WH SPBC	FG020125
Mounting bracket for ceiling mounting	BEAM DH SPBC	FG020126



Type: BEAM ARDEA S
N°: FG020207

Linear smoke detector ARDEA S

Linear infrared light absorption detector, consisting of transmitter and receiver units. The detection process involves the measuring of light absorption whilst dynamic parameters (smoke modulation) are observed. Usage: Large rooms for industrial and civic use e.g.: Manufacturing areas, warehouses and storage halls, supermarkets, cinemas, theatres, trade fair halls, stations, churches, schools etc. The mounting brackets are supplied as standard.

Operating voltage:	18,5 to 32,5 VDC
Quiescent current:	76 (5m) to 112 mA (150m)
Alarm current:	118 mA max.
Monitoring length:	5 to 150 m
Protection category:	IP 44
Ambient temperature:	-25° to +60°C
Max. air humidity:	95%
Case:	Aluminium anodised
Colour:	black / anthracite RAL 7035
Dimensions with bracket:	224 x 119 x 313 mm
Dimensions without bracket:	200 x 119 x 148 mm
Weight:	Transmitter: 1,3 kg; Receiver: 1,5 kg Fitting brackets: 500 g each
VdS-approval:	G294043
CPD-certificate:	0786-CPD-20215



Type: BEAM ARDEA SF2P/100
N°: FG020216

Linear smoke detector ARDEA SF

Its construction, functions and technical specifications are the same as those of the ARDEA S, although the detector also responds to the flame frequencies of open fires. Fitting bracket are included as supplied.

Quiescent current:	99 mA (5m) to 144,5 mA (150m)
Alarm current:	168,5 mA max.



Type: BEAM ARDEA DUST
N°: FG020370

Linear smoke detector ARDEA DUST

Its construction, functions and technical specifications are the same as those of the ARDEA SF, although the detector can also be used in areas where there are difficult environmental conditions (e.g. high dust concentration etc.) thanks to its additional special evaluation process. Fitting bracket are included as supplied.



Type: BEAM ARDEA S EX
N°: FG020373

Linear smoke detector ARDEA for hazardous areas

Construction and principle functions are the same as those of the ARDEA S, but the detector also reacts particularly well to fires in their earliest stages containing hydrocarbon-based propellants, plastic and rubber mixtures and is suitable and approved for monitoring areas where there is a risk of explosion.

Operating voltage:	12 to 24 VDC \pm 20%
Quiescent current:	37 mA (low), 58 mA (high)
Alarm current:	62 mA (low), 84 mA (high)
Monitoring length:	5 to 100 m
Protection category:	IP 66 (with cable clamps)
Ambient temperature:	-10° to +65°C
Case:	Aluminium
Dimensions with bracket:	365 x 241 x 215 mm
Dimensions without bracket:	220 x 190 x 170 mm
Weight:	transmitter and receiver 4,6 kg each
Approval:	INERIS 02 ATEX 0090X



Type: BEAM ARDEA ADM
N°: FG020375

ADM Adapter

For setting the sensitivity of ARDEA linear smoke detectors. The device is connected to the Ardea receiver unit via a special cable, so that the optical and environmental electromagnetic influences can be evaluated by a standard digital voltmeter, thereby allowing the detector to be setup optimally based on these results to match the prevailing environmental conditions.

Type: BEAM FILTER SET
N°: FG020215

Testfilter

For ARDEA linear smoke detectors, for checking settings and that they work properly.

Type: BEAM ARDEA SAC
N°: FG020376

SAC Simulator

For testing settings and functions of ARDEA S and SF detectors. The SAC can check that the detectors are roughly correctly setup by carrying out simulations of the “Fire” and “Smoke” response thresholds, as well as checking signal strength.



Type: BEAM ECO ES50
N°: FG020390



Type: BEAM SSM
N°: FG020254

Linear smoke detector ECO ES50

Consisting of a combined transmitter/receiver unit and a reflector, which is fitted on the facing wall. The infrared beam that is emitted by the transmitter is bounced back by the reflector and evaluated. The distance between the detector and the reflector can be between 2 and 50 metres. The ECO ES50 is fitted on the wall as standard without any further accessories, but where fitting must occur diagonally or where there are sloping walls, two special jointed mounting brackets can be used.

- Alarm evaluation by means of absorption measurement
- Response threshold values can be individually changed by measuring background disturbances
- Vertical monitoring also possible
- Simple installation with a rotating holding clip
- Integrated interface

Operating voltage:	12 to 24 V
Quiescent current:	up to 25 m distance: 19 mA up to 50 m distance: 39 mA
Alarm current:	up to 25 m distance: 32 mA up to 50 m distance: 52 mA
Contact rating:	alarm relay: 1 A @ 30 V fault relay (optocoupler): 170mA@ 30 V
Maximum cable length:	1000 m with 0,8 mm ² 2000 m with 1,0 mm ²
Monitoring length:	2 to 50 m (2 switch positions)
Monitoring width:	15 m in accordance with EN 54-14
Protection category:	IP 44
Ambient temperature:	-20° to +60°C
Relative air humidity:	95%
Dimensions without fixing joint:	103 x 110 x 63 mm
Dimensions with fixing joint:	103 x 110 x 119 mm
Case material:	Polycarbonat / ABS
Case colour:	white RAL 1013
Weight (without fixing joint):	360 g
VdS-approval:	G205128
CPD-certificate:	0786-CPD-20214

Accessories	Type	No.
Test filter	STF4	FG020398
Jointed mounting bracket Set (2 pcs)	BEAM SSM	FG020254



Type: BEAM ECO ES25-I
N°: FG020392

Linear smoke detector ECO ES25-I

The ECO ES25-I is generally the same as the ECO ES50, but is intended for being built into a wall (countersunk installation). Prior to fitting the countersunk case, the detector must be removed from the case. This version is shipped with the jointed mounting bracket for fitting the reflector as standard.

Case:	blue, similar RAL 5017, front: black
Dimensions:	136 x 140 x 73 mm (without fixing joint)
Weight:	ca. 350 g
VdS-approval:	G205128

Accessories	Type	No.
Test filter	STF4	FG020398

6.2 Flame detectors



Type: X2200
N°: FG020320

**Stainless steel version
upon request**

**Test lamps for hazardous areas
upon request**

UV Flame detector X2200

Particularly suitable for use in areas with high temperatures, munitions stores, hydrogen, silane, turbines etc. and offers the highest degree of reliability, even in the event that multiple disturbing influence are present simultaneously (electric arcing, sunlight, etc.). The detector has a 90° angle of sight, has an automatic self-test function, a three colour LED for indicating the detector status and current configuration, as well as integrated sensor heating for installation outdoors. The X2200 is approved for use in hazardous areas in accordance with ATEX 100a (device category 2) and can therefore be used in hazardous zones of type 1 and 2. The bracket for mounting it on walls or ceiling is supplied.

Operating voltage:	18 to 30 VDC
Current consumption:	13,1 W max. with heating unit
Signal transmission:	potential-free relay contacts
Connection:	screw clips, max. 1,5 mm ²
Protection category:	IP 66
Ambient temperature:	-40° to +75°C
Relative air humidity:	0 to 95%
Dimensions:	246 x 119 x 122 mm
Weight:	Aluminium: 2,7 kg, stainless steel: 4,5 kg
Marking:	0539 II 2 GD EEx d IIC T5-T6 T86°C
Approval:	DEMKO 02 ATEX 132195
VdS-approval:	G203083



Type: X3301
N°: FG020322

**Stainless steel version
upon request**

**Test lamps for hazardous areas
upon request**

Triple IR Flame detector X3301

The X3301 IR flame detector works on the multispectrum infrared detection principle and is equipped with three identical IR sensors. The alarm is only triggered, if all three sensors detect flames. The detector recognises burning light and heavy mineral oils, and is notable for its high resistance against deceptive alarms. Possible uses can be found e.g. on oil drilling platforms, in refineries, in production facilities, compressors, turbine systems etc. The detector has a 90° angle of sight, has an automatic self-test function, a three colour LED for indicating the detector status and current configuration, as well as integrated sensor heating for installation outdoors. The X3301 is approved for use in hazardous areas in accordance with ATEX 100a (device category 2) and can therefore be used in hazardous zones of type 1 and 2. The bracket for mounting it on walls or ceiling is supplied.

Operating voltage:	18 to 30 VDC
Current consumption:	14,5 W max. with heating unit
Signal transmission:	potential-free relay contacts
Connection:	screw clips, max. 1,5 mm ²
Protection category:	IP 66
Ambient temperature:	-40° to +75°C
Relative air humidity:	0 to 95%
Dimensions:	246 x 119 x 122 mm
Weight:	Aluminium: 2,7 kg; stainless steel: 4,5 kg
Approval:	DEMKO 01 ATEX 130204
VdS-approval:	G202136



Type: X9800
N°: FG020321

**Stainless steel version
upon request**

**Test lamps for hazardous areas
upon request**

IR Flame detector X9800

The X9800 single frequency infrared detector is suitable for detector of fires in locations where flames can be caused by the presence of high-pressure combustible hydrocarbons, and where there are high concentrations of oil or pollutants in the air (e.g. in pipelines, drilling platforms, petrochemical installations, turbines etc.). The detector allows reliable detection even in the simultaneous presence of sources of disturbance (e.g. sources of convected heat radiation, ovens etc.). The detector has a 90° angle of sight, has an automatic self-test function, a three colour LED for indicating the detector status and current configuration, as well as integrated sensor heating for installation outdoors. The X9800 is approved for use in hazardous areas in accordance with ATEX 100a (device category 2) and can therefore be used in hazardous zones of type 1 and 2. The bracket for mounting it on walls or ceiling is supplied.

Operating voltage:	18 to 30 VDC
Current consumption:	12 W max. with heating unit
Signal transmission:	potential-free relay contacts
Connection:	screw clips, max. 1,5 mm ²
Protection category:	IP 66
Ambient temperature:	-40° to +75°C
Relative air humidity:	0° to 95%
Dimensions:	246 x 119 x 122 mm
Weight:	Aluminium: 2,7 kg, stainless steel: 4,5 kg
Approval:	DEMKO 02 ATEX 132195
Marking:	0539 II 2 GD EEx d IIC T5-T6 T86°C
VdS-approval:	G203084



Type: X5200
N°: FG020323

**Stainless steel version
upon request**

**Test lamps for hazardous areas
upon request**

UV/IR Flame detector X 5200

The X5200 combined UV/IR flame detector contains a UV and an IR sensor, and the alarm is first triggered when both sensors detect flames. The detector is particularly suitable for uses where hydrocarbon fires may arise, or where there are sources of UV radiation present. Possible usages are in aircraft hangars, petrol storage depots etc. The detector has a 90° angle of sight, has an automatic self-test function, a three colour LED for indicating the detector status and current configuration, as well as integrated sensor heating for installation outdoors. The X5200 is approved for use in hazardous areas in accordance with ATEX 100a (device category 2) and can therefore be used in hazardous zones of type 1 and 2. The bracket for mounting it on walls or ceiling is supplied.

Operating voltage:	18 to 30 VDC
Current consumption:	14,5 W max. with heating unit
Signal transmission:	potential-free relay contacts
Connection:	screw clips, max. 1,5 mm ²
Protection category:	IP 66
Ambient temperature:	-40° to +75°C
Relative air humidity:	0 to 95%
Dimensions:	246 x 119 x 122 mm
Weight:	Aluminium: 2,7 kg, stainless steel: 4,5 kg
Approval:	DEMKO 02 ATEX 132195
VdS-approval:	G203085



Type: DF 1191
N°: FG020360

IR Flame detector DF 1191

For detection of liquid and gas fires without smoke formation as well as open fires with smoke formation, which occur during the combustion of carbon-based materials such as wood, plastics, gases, oil products etc. The detector is suitable for simple interior applications, and contains an infrared sensor, which measures the hot carbon dioxide in the flames at a specific wavelength.

Operating voltage:	16 to 28 VDC
Quiescent current:	500 μ A
Field of detection:	90°
Monitoring area:	27 m at 0° viewing angle (standard) 46 m at 0° viewing angle (raised)
Protection category:	IP 44
Ambient temperature:	-25° to +70°C
Relative air humidity:	95% (no strong build-up of dew)
Case material:	die cast Aluminium
Colour:	white (similar to RAL 9010)
Dimensions incl. base:	135 x 135 x 77 mm (HxWxD)
Weight incl. base:	750 g
VdS-approval:	G299085



Type: DF 1192
N°: FG020361

Triple IR Flame detector DF 1192

Three sensor infrared flame detector with fuzzy logic and wavelet analysis, suitable for the detection of smokeless liquid and gas fires, as well as open fires with smoke formation, which arise from the burning of materials containing carbon. The detector is suitable for use both indoors and outdoors.

Operating voltage:	16 to 28 VDC
Quiescent current:	500 μ A
Field of detection:	90°
Monitoring area:	27 m at 0° viewing angle (standard) 46 m at 0° viewing angle (raised)
Protection category:	IP 67
Ambient temperature:	-35° to +70°C
Relative air humidity:	100% (no strong build-up of dew)
Case material:	die cast Aluminium
Colour:	white (similar to RAL 9010)
Dimensions incl. base:	135 x 135 x 77 mm (HxWxD)
Weight incl. base:	750 g
VdS-approval:	G299085



Type: DFB 1190
N°: FG020363

Base for flame detectors DFB 1190

Base for DF1191, DF1192 and DF1101 Ex flame detectors including electronics for connecting.

Material:	Plastic, fibreglass reinforced polycarbonate
Dimensions:	135 x 135 x 45 mm (HxWxD)
Weight:	250 g



Type: DF 1101EX
N°: FG020362

Infrared flame detector DF 1101Ex for hazardous areas

Intrinsically safe infrared flame detector for use in zone 1 and zone 2 hazardous areas with a risk of explosion. The DF1101Ex is suitable for the detection of smokeless liquid and gas fires, as well as open fires with smoke formation, which arise from the burning of materials containing carbon. The detector is suitable for use both indoors and outdoors.

Operating voltage:	16 to 28 VDC
Quiescent current:	500 µA
Field of detection:	90°
Monitoring area:	27 m at 0° viewing angle (standard) 46 m at 0° viewing angle (raised)
Protection category:	IP 67
Ambient temperature:	-25° to +70°C
Relative air humidity:	100% (no strong build-up of dew)
Case:	die cast Aluminium, white
Dimensions incl. base:	135 x 135 x 77 mm (HxWxD)
Weight incl. base:	750 g
Marking:	EEx ib IIC T4
Approval:	PTB 02 ATEX 2161
VdS-approval:	G299085
CPD-certificate:	0786-CPD-20497



Type: Stabex HF
N°: FG020367

Test lamp for DFx flame detector

With a halogen filament lamp for testing DFx series flame detectors, also suitable for use in hazardous areas. The batteries are not supplied.



Type: MV1
N°: FG020364

Installation bracket for DFx detectors

Installation bracket for attaching flame detectors DF1191, DF1192 and DF1101 Ex with 45° angle of list.

Weight:	285 g
Dimensions:	120 x 136 x 120 mm (HxWxD)
Angle of list:	45° fix



Type: MWV1
N°: FG020365

Mounting angle for DFx detectors

Recommended for special applications (e.g. monitoring of facilities without an 45° angle). The MWV1 permits an easy aligning of the detector directly on the object which is to be monitored.

Dimensions:	118 x 120 x 78 mm (HxWxD)
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Type: DFZ1190
N°: FG020366

Rain protection case for DFx detectors

For outside applications to protect the detectors.

Dimensions:	165 x 150 x 130 mm (HxWxD)
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6.3 Linear temperature detectors



Type: ADW 511
N°: FG020900

Transsafe ADW 511

The Transsafe ADW 511 is a line temperature detector which detects maximum temperature and temperature change. The detector works on the principle of a gas expanding in volume when it gets hotter, and the associated increase in pressure in a pneumatically sealed system.

The ADW 511 consists of a copper sensor tube (stainless steel or Teflon tubes are available for use where there are particularly difficult environmental conditions upon request) and a detector case. Pressure is artificially created in the sensor tube, with a fully electronic pressure sensor constantly measuring the absolute pressure in the tube, with a microprocessor carrying out the evaluation of the results. The sensitivity of the ADW 511 can be set via a using PC-based software, with disturbance factors such as weather-related fluctuations in temperature being filtered out.

Damage to the sensor tube is also recognised, by means of a precisely defined surplus pressure being created in the sensor tube by means of a test motor and a pressure pump at regular intervals. Its robust construction makes the ADW 511 particularly suitable for use in detecting fires in hazardous areas (in tunnel systems, hazardous areas, industrial applications etc.).

Operating voltage:	10,5 to 30 VDC
Quiescent current:	90 mA at 24 VDC
Alarm current:	99 mA at 24 VDC
Max. power consumption:	108 mA at 24 VDC
Connection:	screw clips, max. 1,5 mm ²
Protection category Case:	IP 65
Ambient temperature:	Evaluation unit: - 20° to +50°C Sensor tube: - 40° to +160°C
Case colour:	grey RAL 7000
Dimensions case:	160 x 160 x 90 mm
Length of sensor tube:	20 to 80 m (up to 130m for use in tunnels)
Sensor tube diameter:	internal: 4 mm / external diameter: 5 mm
Weight:	1,7 kg
VdS-approval:	G200111

Accessories	Type	No.
Copper sensor tube diameter=5/4mm	ADW CUFR	FG020910
Stainless steel sensor tube diameter=5/4mm	ADW ESFR	FG020911
Teflon sensor tube diameter=5/3mm	ADW TFFR	FG020912
ADW 511 test motor	ADW PM	FG020920
ADW-511 (ADP-51) base plate	ADW ADP51	FG020921
Brass cable gland	ADW MV	FG020922
Brass terminating stopper	ADW MEZ	FG020923
Brass adapter	ADW MSH	FG020924
Plastic sliding clip	ADW KBRD	FG020925
Plastic tubing	ADW KSCHL	FG020926
Stainless steel cable gland	ADW ESV	FG020927
Stainless steel terminating stopper	ADW ESEZ	FG020928
Stainless steel adapter 4 mm	ADW ESSH1	FG020929
Stainless steel adapter 3 mm	ADW ESSH2	FG020930

6.4 Smoke aspirating system AirSCREEN ASD 535



Type: ASD 535-1
N°: FG030800



Type: ASD 535-2
N°: FG030801



Type: ASD 535-3
N°: FG030802



Type: ASD 535-4
N°: FG030803

Smoke aspirating system AirSCREEN ASD 535

Active linear smoke aspirating system, consisting of one or two independent aspirating lines with aspirating apertures and each with an evaluation unit with one or two built-in SSD 535 smoke sensors for monitoring rooms and facilities.

ASD 535-1: 1 Aspirating line

ASD 535-2: 2 Aspirating lines

ASD 535-3: 1 Aspirating line with smoke level indicator

ASD 535-4: 2 Aspirating lines with two smoke level indicators

A high performance fan transports the air from the room to be monitored through the aspirating line into the evaluation unit. Using airflow monitoring the aspirating line is permanently monitored for pipe breaks and contamination of the aspirating apertures. The aspirated air is constantly evaluated by the smoke sensors, ensuring that an increase in the concentration of smoke is detected very early on. The indicator and operating panel displays the smoke concentration of the aspirated air, as well as other alarm, fault and status messages. The ASD 535 also contains four connection slots, in which relay and interface circuit boards can be fitted and connected.

For every aspirating line three pre-alarms and one main alarm can be programmed, which are transmitted to the fire alarm control panel either over potential-free contacts or the loop circuit. The smoke sensors (not part of delivery) are available in different sensitivity classes and can also be adapted to conditions in terms of their sensitivity. For calculating asymmetrical pipework formations, “PipeFlow” software is available, for commissioning larger systems, the PC-based commissioning software “ASD Config” is used.

Operating voltage:	10,5 to 30 VDC
Quiescent current:	290 mA @ 24 VDC
Alarm current:	385 mA @ 24 VDC
Relay output:	3 freely programmable, potential-free contacts
Optional modules:	SLM 35, MCM 35, 2x RIM 35 (max. 4 pcs.)
Sensitivity range:	(see SSD 535)
Aspirating pipes:	ABS and hard PVC
Cable entry points:	4 x M20, 1 x M25
Pipe length:	max. 2 x 240m (acc. EN 54-20)
Pipe diameter:	25 mm external diameter
Ventilator:	radial, 5 adjustable speeds
Intake pressure:	> 400 Pa (step 5)
Intake noise:	43 dB(A) (standard setting)
Protection category:	IP 54
Ambient temperature:	-20° to +60°C
Case material:	ABS, UL 94-V0
Case colour:	light grey RAL 280 7005, anthracite RAL 300 2005
Dimensions:	397 x 263 x 146 mm (HxWxD)
Weight:	3,8 kg
VdS-approval:	G208154
CPD-certificate:	0786-CPD-20600



Type: SSD 535-1
N°: FG030810



Type: SSD 535-2
N°: FG030811



Type: SSD 535-3
N°: FG030812

Smoke sensor SSD 535 for ASD 535

Highly sensitive HD sensor using the scattered light principle for use in the various ASD 535 models. The sensor is designed to optimally fulfil the requirements of a smoke detection in conjunction with an aspirating smoke detector. The threshold sensitivity of the smoke sensor can be set anywhere in the given range.

- High power LED with lowest air resistance and highest resistance against contamination
- Compares sample parameters for fires
- Intelligent alarm buffering
- Alarm threshold tracking with two level contamination indicators
- Dynamic particle suppression for detection and fading out of dust particles
- Auto learning function for critical atmospheric conditions

Operating voltage:	5 V DC
Protection category:	IP 44
Alarm-sensitivity range:	SSD 535-1: 0,5 to 10 %/m SSD 535-2: 0,1 to 10 %/m SSD 535-3: 0,02 to 10 %/m
Pre-signal sensitivity:	0,002 to 10 %/m
Ambient temperature:	-20 °C to +60 °C
Dimensions:	145 x 120 x 95 mm (HxWxD)
Case colour:	grey

Replacement parts for ASD 535



Description	Type	No.
Basic circuit board for ASD 535-1 and -3	AMB 35-1	FG030830



Basic circuit board for ASD 535-2 and -4	AMB 35-2	FG030831
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Airflow sensor incl. connection cable	AFS 35	FG030833
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Ventilator unit for ASD 535	AFU 35	FG030834
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Standard indicator panel for ASD 535	BCB 35	FG030835
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Extended indicator panel for ASD 535	ACB 35	FG030836
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Universal module holder UMS 35	UMS 35	FG030826
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Accessories for ASD 535



Type: MCM 35
N°: FG030821



Type: SD-CARD
N°: FG020325



Type: SLM 35
N°: FG030820



Type: RIM 35
N°: FG030822

Type: ASD PIPEFLOW
N°: FG030850

Type: ASD CONFIG
N°: FG030851

Memory card module MCM 35

Additional module for fitting in the ASD 535 for recording operating data. The module enables recordings for a long period of time for smoke concentrations and air flows (sensor 1 and 2) as well as saving event data every second. A maximum of 251 log files each with 28,800 entries or 251 event files each with 64,000 events can be saved and a maximum of two MCM 35 units can be fitted per ASD 535. Only SD cards that have been tested and approved for use by Schrack Seconet can be used. One SD memory card and a fitting kit are supplied.

Operating voltage:	5 V DC
Power consumption:	max. 25 mA
Dimensions:	58 x 99 x 17 mm (HxWxD)

Loop Module SLM 35

Additional module for connecting the ASD 535 to the Integral loop circuit. Operation, configuration and querying of data from the ASD 535 can be carried out directly from the fire alarm control panel. Shipped including fitting kit.

Operating voltage:	5 V DC
Power consumption:	max. 20 mA
Dimensions:	58 x 95 x 17 mm (HxWxD)

Relay module RIM 35

Additional module for fitting in the ASD 535 with five relays (potential-free change-over contacts). The module guarantees that the three pre-signal levels as well as the contamination/blockage statuses are available. The relays can be freely programmed in accordance with any control criteria, while a maximum of two RIM 35 units can be used per ASD 535. Shipped including fitting kit.

Operating voltage:	5 V DC
Power consumption:	max. 15 mA
Load capacity relay contact:	max. 50 V DC/1 A/30 W
Dimensions:	58 x 97 x 17 mm (HxWxD)

ASD PipeFlow calculation software

Calculation software for planning the aspirating line in accordance with EN 54-20.

Requirements:	Windows XP/Vista 1 GB RAM, 50 MB HD
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ASD Config configuration software

Software for commissioning the ASD 535. For changing the configuration or when using »ASD PipeFlow«.

Requirements:	Windows XP/Vista 1 GB RAM, 10 MB HD
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Accessories	Type	No.
USB-cable 4,5 m (ASD 535/PC)	KAB USB 45	FG022052



Type: DFU 535L
N°: FG030386

Dust Filter Unit DFU 535L

For somewhat dusty environments, consisting of a case and a polyester filter cartridge. For installation in the aspirating pipe before the smoke aspirating system's highly sensitive smoke sensor. Including two PVC reduction units from 5/4" to 40 mm and two reduction units from 40 mm to 25 mm.

Filter surface:	1.200 cm ²
Protection category:	IP 65
Ambient temperature:	0 °C to +60 °C
Dimensions:	165 x 220 x 220 mm (HxWxD)
Case:	ST 37, black
Diameter of pipe connection:	40 or 25 mm

Accessories	Type	No.
Replacement filter for DFU 535L	DFU 535L EP	FG030387



Type: DFU 535XL
N°: FG030388

Dust filter unit DFU 535XL

For normal and extremely dusty environments, consisting of a case and a polyester filter cartridge. For installation in the aspirating pipe before the smoke aspirating system's highly sensitive smoke sensor. Including two PVC reduction units from 5/4" to 40 mm and two reduction units from 40 mm to 25 mm.

Filter surface:	3.400 cm ²
Protection category:	IP 65
Ambient temperature:	0 °C to +60 °C
Dimensions:	230 x 250 x 250 mm (HxWxD)
Case:	ST 37, black
Diameter of pipe connection:	40 or 25 mm

Accessories	Type	No.
Replacement filter for DFU 535XL	DFU 535XL EP	FG030389



Type: REK 511
N°: FG030150

Identification unit REK 511

Suitable for use together with smoke aspirating system ASD 535 and to evaluate single detector zones. For this purpose, the REL 511 is fitted in each single tube of the suction pipe. Only the smoke detectors SSD 515-1S, -2S, or -3S (with different sensitivity) can be used together with the REK 511. The alarm condition of an activated detector within the REK 511 is indicated via LED on the outer cover. Shipment includes detector base and screw connections, the smoke detector has to be ordered separately.

Operating voltage:	18 to 28 VDC
Quiescent current:	18 to 20 mA
Alarm current:	25 to 30 mA
Suitable smoke detectors:	SSD 515-1S: 1,2%/m (standard)
	SSD 515-2S: 0,6%/m (sensitive)
	SSD 515-3S: 0,3%/m (high-sensitive)

Connection:	screw clips, max. 1,5 mm ²
Cable entry points:	for cables up to 6 mm diameter
Protection category:	IP 53
Ambient temperature:	0° to +50°C
Dimensions:	122 x 186 x 85 mm (HxWxD)
Case:	ABS, UL 94-V0; light grey, RAL 7035
Weight:	ca. 580 g



Type: SSD 515-1S
N°: FG030379

Type: SSD 515-2S
N°: FG030380

Type: SSD 515-3S
N°: FG030381

Material for aspirating pipe

The aspirating line of the ASD 535 is part of the device approval pursuant to EN 54-20, for this reason only the material listed hereafter may be used for the aspirating line of the ASD 535 smoke aspirating system. Other than the PVC parts listed below, the piping material is also available in other types and plastic and metal (ABS, copper, stainless steel etc.) with a comprehensive list and documentation of this material being available upon demand.

	Description	Type	No.
	PVC pipe d25 (5 m)	RAS R25	FG020805
	PVC arch 90° d25	RAS B9025	FG020806
	PVC angle 90° d25	RAS W9025	FG020807
	PVC angle 45° d25	RAS W4525	FG020808
	PVC T-piece d25	RAS T25	FG020809
	PVC cross piece d25	RAS K25	FG020810
	PVC coupling d25	RAS M25	FG020811
	PVC terminal cap d25	RAS E25	FG020812
	PVC attaching clip of type IKS d25	RAS BSIKS25	MM000023
	PVC terminal screw cap d25	RAS VE25	FG020832
	PVC connection joint d25	RAS VE25M	FG020833
	PVC screw connection joint	RAS ÜV25	FG020829
	PVC clip d25/2,0mm	RAS CLP 2520	FG020840
	PVC clip d25/2,5mm	RAS CLP 2525	FG020841
	PVC clip d25/3,0mm	RAS CLP 2530	FG020842
	PVC clip d25/3,5mm	RAS CLP 2535	FG020834
	PVC clip d25/4,0mm	RAS CLP 2540	FG020835
	PVC clip d25/4,5mm	RAS CLP 2545	FG020836
	PVC clip d25/5,0mm	RAS CLP 2550	FG020843
	PVC clip d25/5,5mm	RAS CLP 2555	FG020844
	PVC clip d25/6,0mm	RAS CLP 2560	FG020845
	PVC clip d25/6,5mm	RAS CLP 2565	FG020846
	PVC clip d25/7,0mm	RAS CLP 2570	FG020847
	PVC maintenance clip d25	RAS CLP REV	FG020837
	Small funnel d25	RAS KTR	FG020855

	Description	Type	No.
	Sampling point for ceiling duct M20 / Ø 36 mm white, PVC	SP M20 PVC-SET	FG020883
	Polywell tube 21,2 mm only for monitoring facilities !	RAS SCHL PW21	FG020860
	Quick locking adapter M20 straight only for monitoring facilities !	RAS SCHL SV M20	FG020861
	PVC threaded ring M20 only for monitoring facilities !	RAS SCHL GR M20	FG020862
	PVC-sampling point for PVC-tube d=25	RAS ASR	FG020863
	Dust trap d25 160x250x90mm	RAS STF25	FG020850
	Adhesive 0,5 kg	RAS KLK	FG020800
	Adhesive 1 kg	RAS KLG	FG020801
	Cleaner 1 litre	RAS RNG	FG020802
	Round brush 8mm	RAS RP8	FG020803
	PVC-3-way ballcock, d=25	RAS 3WKH25	FG020867
	Filter box large d25 incl. filter, 120x122x85mm	RAS FKG25	FG020864
	Replacement filter for filter box FG020864	RAS FM FKG	FG020865
	Water separator	RAS WATS	FG020881
	Dust retaining box (cyclone)	RAS ST ZYKLON	FG020882
	Dust filter unit DFU 535L	DFU 535L	FG030386
	Replacement filter for DFU 535L	DFU 535L EP	FG030387
	Dust filter unit DFU 535XL	DFU 535XL	FG030388
	Replacement filter for DFU 535XL	DFU 535XL EP	FG030389
	Identification unit REK 511	RAS REK 511	FG030150
	Smoke detector for REK 511 1.2 %/m	RAS SSD 515-1S	FG030379
	Smoke detector for REK 511 0.6 %/m	RAS SSD 515-2S	FG030380
	Smoke detector for REK 511 0.3 %/m	RAS SSD 515-3S	FG030381

6.5 Radio-linked fire alarm detectors



Type: DOW 1171

N°: FG030172

Radio-linked smoke detector DOW 1171

The radio-linked wireless optical smoke detector is used to extend fire alarm systems in areas, where architectural aspects or particular operating processes do not allow wires to be laid (e.g. in historical buildings, hotels, museums etc.). The system comprises of one or more optical DOW 1171 radio-linked smoke detectors and a receiver unit (radio gateway with wireless module), which is connected directly to the Integral loop technology. The transmission of data between wireless smoke detectors and the receiver unit is bidirectional using the SRD waveband (868-870 MHz), thereby ensuring the highest possible degree of transmission security and operational security. The detector is supplied with power by two batteries, the receiver via the loop circuit. Up to 30 radio-linked smoke detectors can communicate with a single wireless module. Supplied including a detector base and 2 pcs. 9V batteries.

Power supply:	2 Stk. 9V-lithium batteries
Average power consumption:	68 μ A
Battery operating life:	> 5 years in normal use
Frequency range:	868 to 870 MHz (SRD band)
Channel spacing:	25 kHz
Transmitter power:	max. 5 mW
Range in buildings:	up to 40 m with intervisibility
Aerial:	double integrated aerials
Protection category:	IP 44
Ambient temperature:	-10° to +55°C
Relative air humidity:	max. 95% at 34°C
Dimensions:	119 x 73 mm (D x H)
Case material:	PC/ABS plastic
Colour:	white, similar to RAL 9010
Weight:	335 g
Radio approval:	CE 0123
VdS-approval:	G200112
CPD-certificate:	0786-CPD-20089



Type: BATT FM

N°: FG030173

Battery for radio-linked smoke detectors & radio gateway

The 9V lithium ultralife battery is used not only for supplying the radio gateway with power (1 battery required for commissioning and for ensuring that the configuration settings are maintained during maintenance), as well as also acting as a replacement in the radio-linked detector (2 pcs).

Caution: The batteries are very vulnerable to impacts !

System:	Lithium / Manganese Dioxide
Description:	NEDA 1604 LC
Rated voltage:	9 V
Wattage:	1,2 Ah @ 900 Ω to 5,4 V @ 23°C
Maximum discharge:	120 mA
Ambient temperature:	-20° to +60°C
Case:	Aluminium/Mylar
Safety:	less than 2g lithium; no restrictions on transportation



Type: SMF 6120
N°: FG030176

Radio-linked manual call point SMF 6120

For manually triggering a fire alarm in areas, where architectural aspects or particular operating processes mean that cables can only be laid with difficulty, or not at all. The alarm is triggered by smashing the glass panel and pressing the button. The SMF 6120 communicates wirelessly bidirectionally with the BA-RGW radio gateway over the 868-870 MHz Short Range Device frequency band. Power is supplied by 2 batteries (not supplied).

Power supply:	2 Stk. 3,6V-lithium batteries
Average power consumption:	60 μ A
Battery operating life:	> 5 years in normal use
Frequency range:	868 - 870 MHz (SRD)
Frequency selection:	16 groups with 5 channels
Channel spacing:	25 kHz
Transmitter power:	max. 5 mW
Range in buildings:	up to 40 m with intervisibility
Aerial:	double integrated aerials
Protection category:	IP 43
Ambient temperature:	-10° to +55°C
Relative air humidity:	95%, without condensation
Dimensions:	125 x 125 x 57 mm (HxWxD)
Case material:	ABS
Colour:	red RAL 3000
Weight:	350 g
Radio approval:	CE 0123
VdS-approval:	G203060

Accessories	Type	No.
Installation base for SMF 6120	SMF 6120 BASE	FG030177
Lithium battery 3,6 V	SMF 6120 BAT1	FG030178
Key for SMF 6120	DKM SV	FG020289
Replacement glass panel for SMF 6120	SMF 6120 GLAS	FG030187



Type: BA-RGW
N°: FG030170



Radio module:
Type: BA-RFM
N°: FG030171



Type: BATT FM
N°: FG030173

Radiogateway BA-RGW

The radio gateway serves as a receiver unit for all wireless fire detectors for connection into Integral loop technology and comprises of 3 components, which must be ordered separately: Radio gateway including case (FG030170), BA-RFM radio module (FG030171) and a 9V battery (FG030173). The radio module is connected to the radio gateway's circuit board and is used to communicate with the radio-linked detectors. Module BA-RGW is supplied with power from the loop circuit, with the 9V battery being used for the commissioning process or for ensuring the continuity of the power supply during maintenance.

Operating voltage:	20 to 27 VDC
Current consumption:	950 μ A typ.
Interface for radio module:	20 pin 2 rowed multipoint connector
Buffer battery:	9 V Lithium (operating lifetime: > 5 years)
Frequency range:	868 to 870 MHz
Transmitter power:	max. 5 mW
Detectors:	max. 30 can be connected
Range in buildings:	up to 40 metres with intervisibility
Aerial:	double integrated aerials
Short circuit isolator:	integrated
Protection category:	IP 54 with case
Ambient temperature:	-10° to +55°C
Relative air humidity:	5 to 95%, without condensation
Dimensions:	93 x 70 x 24 mm (HxWxD)
Case:	Polystyrol, halogen-free, grey RAL7035
Dimensions case:	120 x 80 x 57 mm (HxWxD)
VdS-approval:	G204053
CPD-certificate:	0786-CPD-20425

Radiospy

For configuration, commissioning and checking installed wireless detectors. This tool only works in combination with a PC or laptop and is user for measuring the strength of the fields (to assist in configuration), for observing and monitoring wireless communications, for changing the configuration of a wireless cell (e.g. changing detectors without reconfiguration).

Type: FRSP
N°: FG030175



Type: FTG
N°: FG030174

Testing device

The FTG wireless testing device is used to check radio transmission conditions in site (using a field strength check between two points) and supports the necessary number of detectors and gateways in the planning stage.

7 Accessories

7.1 Firebrigade key safes & plan case



Type: FSS
N°: FG020507

Fire Brigade key safe conforming to ÖNORM F 3032

The Fire Brigade Key Safe is built into the external wall of a building, its purpose being the thief proof storage of the keys to the building. In the event of a fire, the fire brigade can open the door with their key and take out the keys to the building.

Current consumption:	
Releasing building keys:	210 mA typ.
Door opener:	130 mA typ.
Buzzer:	30 mA typ.
Equipotential bonding:	4 mm ²
Connection clips:	max. 1,5 mm ²
Alarm current resistance:	2,2 kΩ ± 5%
Suitable locking cylinders:	profile half cylinder (max. length: 40mm; Backset: 30mm; stop lug can be rotated 45°)
Protection category:	IP 44
Ambient temperature:	-25° to +60°C
Dimensions of safe:	350 x 280 x 115 mm (HxWxD)
of build-in frame:	300 x 270 x 140 mm (HxWxD)
of surface mounted case:	352 x 282 x 130 mm (HxWxD)
Weight:	12,5 kg / 17 kg with build-in frame
Approval:	in accordance with ÖNORM F 3032

Replacement parts & Accessories	Type	No.
Flush mounted frame for key safe	FSS UP	FG020508
Surface mounted case for key safe	FSS AP	FG020515
Fire brigade cylinder MHZ52NI Austria	FSS ZYL A	FG020510
Replacement locking pin	FSS AS	FG020512
Schrack Logo label (40 x 10 mm)	S LOGO1	FG28407



Type: FSS AD
N°: FG020509

Controller device for key safe

For connecting the fire brigade key safe to the fire alarm control panel.

Operating voltage:	24 VDC
Quiescent current:	30 mA
Protection category:	IP 30
Ambient temperature:	-10° to +50°C
Colour:	red, RAL 3000
Dimensions:	300 x 200 x 50 mm (HxWxD)
Weight:	2 kg



Type: FSS FASB
N°: FG020513

Fire Brigade key box FASB

Further addition to the fire brigade key safe, without electrical unlocking. Particularly suitable for storage of gate and engine room keys for fire brigade access, lift companies, electricians or emergency services. The panel mounting cylinder is not supplied and must be ordered separately.

Dimensions: 150 x 150 x 57 mm (HxWxD)
Colour: grey RAL 7032

Accessories	Type	No.
Firebrigade mounting cylinder	MHZ52NIFSS ZYL B	FG020514



Type: FWPK AP
N°: FG020511

Fire brigade plan case

For safekeeping of documents for the fire brigade (e.g. alarm organisation, fire prevention plans, detector zone lists, operating manual for the fire alarm control system etc.) in immediate reach to the fire alarm control panel in accordance with TRVB S 115. The fire brigade plan cupboard is fitted with the fire brigade lock, which is also used on fire brigade control panels and manual call points. The box is supplied with one key and three mounting screws.

Dimensions: 400 x 350 x 110 mm (HxWxD)
Colour: red RAL 3000

7.2 Modems & converters



Type: DL-485/13-SM-ST-L
N°: FG021060



Channel A:
Type: DL-485/13-SM-SC-A-L
N°: FG021061



Channel B:
Type: DL-485/13-SM-SC-B-L
N°: FG021062



Adapter SC to ST single mode
Type: SC/ST AD SM
N°: FG021063

Optic fibre modem RS485 / Singlemode

Optic fibre modems singlemode are used to connect Integral subcontrol units and are deployed in SecoNET fire alarm networks, if the connection between the individual control units is greater than 1,200m or a fibre optic connection (9/125µm) is necessary. The optic fibre modems function in this process as an interface converter, from the Integral RS 422 / RS 485 interfaces to fibre optic cables. The modem type depends on the type of fibre that should be used.

Operating voltage:	12 to 30 VDC
Power consumption:	max. 2,4 W (<100mA at 24V)
Required battery capacity:	7,2 Ah for 72 h supply interruption period 2,5 Ah for 24 h supply interruption period
Installation:	on a 35 mm DIN top-hat rail
Transmission type:	half duplex
Interface 1:	RS 485 on DB 9 and 6-pin screw clip
Interface 2 (1-fibre):	1 SC fibre optic connection; Singlemode 9/125µm
Interface 2 (2-fibre):	2 ST fibre optic connection Singlemode 9/125µm
Range:	typ. 15 km (depending on the insulation of the fibres and the number of connections)
Transmission rates:	up to 1.5 Mbit/s
Status - LED's:	Power supply (green) Data received (yellow) Optical connection faulty (red)
Ambient temperature:	-10°C to +55°C (operation) -40°C to +85°C (storage)
Dimensions:	115 x 61 x 113 mm (HxWxD)
Case:	Stainless steel, powder-coated
Weight:	500 g

2 fibres per modem connection

	Type	No.
Optic fibre modem RS485 Singlemode 1 channel, 2x fibre optic cables 9/125µm, ST-connector	DL-485/13-SM-ST-L	FG021060

1 fibre per modem connection (only in pairs in conjunction of channels A+B)

Optic fibre modem RS485 Singlemode channel A, 1x fibre optic cables 9/125µm, SC-connector	DL-485/13-SM-SC-A-L	FG021061
Optic fibre modem RS485 Singlemode channel B, 1x fibre optic cables 9/125µm, SC-connector	DL-485/13-SM-SC-B-L	FG021062
Adapter SC to ST singlemode	SC/ST AD SM	FG021063



Type: DL-485/13-MM-ST
N°: FG021064



Channel A:
Type: DL-485/13-SM-SC-A
N°: FG021065



Channel B:
Type: DL-485/13-SM-SC-B
N°: FG021066



Adapter SC to ST Multimode
Type: SC/ST AD MM
N°: FG021067

Optic fibre modem RS485 / Multimode

Optic fibre modems multimode are used to connect Integral subcontrol units and are deployed in SecoNET fire alarm networks, if the connection between the individual control units is greater than 1,200m or a fibre optic connection (50(62)µm) is necessary. The optic fibre modems function in this process as an interface converter, from the Integral RS 422 / RS 485 interfaces to fibre optic cables. The modem type depends on the type of fibre that should be used.

Operating voltage:	12 to 30 VDC
Power consumption:	max. 2,4 W (<100mA at 24V)
Required battery capacity:	7,2 Ah for 72 h supply interruption period 2,5 Ah for 24 h supply interruption period
Installation:	on a 35 mm DIN top-hat rail
Transmission type:	half duplex
Interface 1:	RS 485 on DB 9 and 6-pin screw clip
Interface 2 (1-fibre):	1 SC fibre optic connection; Multimode 50/125µm
Interface 2 (2-fibre):	2 ST fibre optic connection Multimode 50/125µm
Range:	typ. 3 km (depending on the insulation of the fibres and the number of connections)
Transmission rate:	up to 1.5 Mbit/s
Status - LED's:	Power supply (green) Data received (yellow) Optical connection faulty (red)
Ambient temperature:	-10°C to +55°C (operation) -40°C to +85°C (storage)
Dimensions:	115 x 61 x 113 mm (HxWxD)
Case:	Stainless steel, powder-coated
Weight:	500 g

2 fibres per modem connection	Type	No.
Glasfasermodem RS485 Multimode 1 Kanal, 2x LWL 50/125µm, Stecker ST	DL-485/13-MM-ST	FG021064
1 fibre per modem connection (only in pairs in conjunction of channels A+B)		
Optic fibre modem RS485 Multimode channel A, 1 fibre, ST-connector	DL-485/13-SM-SC-A	FG021065
Optic fibre modem RS485 Multimode channel B, 1 fibre, ST-connector	DL-485/13-SM-SC-B	FG021066
Adapter SC to ST Multimode	SC/ST AD MM	FG021067

**Type: TD-36LV485****N°: FG021052**

Telephone modem RS 422 / RS 485

Synchronous/asynchronous industrial modem, suitable both for telephony use (dedicated line), as for 2 and 4 wire operation for interconnecting Integral subcontrol units or SecoNET if the distance between the subcontrol units is greater than 1,200m and a optical fibre connection is not possible.

Operating voltage:	12 to 48 VDC
Power consumption:	ca. 2 W (ca. 80 mA at 27 V)
Required battery capacity:	6.5 Ah (for 72 h supply interruption period)
Installation:	on a 35 mm DIN top-hat rail
Transmission type:	asynchronous, full duplex, half duplex or simplex
Interface 1:	EIA RS 422 / RS 485 / ITU-T V.11 5-pin screw-type terminal
Interface 2:	2 or 4 wire cable 4-pin screw-type terminal or dedicated line using RJ-11
Range:	max. 24 km
Transmission speed:	max. 33,6 kbps over the cable max. 115 kbps over the interface
LEDs:	operation, TD, RD, RTS, DCD
Ambient temperature:	+5° to +50°C
Relative air humidity:	0 to 95%, non-condensing
Dimensions:	100 x 55 x 128 mm (HxWxD)
Weight:	300 g

**Type: ADAM 4520****N°: FG020212**

Interface converter

Galvanically isolated interface converter for converting RS 232 to RS 485/RS 422 for connecting Integral control panels to the Schrack BMZ Maxima, to superordinated control systems etc. If the interface converter is not fitted in the control panel, then an extra power supply is required

Operating voltage:	10 to 30 VDC
Bit-rate:	115,2 kBit/sec.
Range RS 485/422:	1200 m
Range RS 232:	15 m
Interfaces:	RS 422 / RS 485 via screw clips RS 232 via DB9-F
Ambient temperature:	0° to +70°C
Recommended cable types:	2 x 2 x 0,5 twisted, unshielded e.g. MMI-BUS cable (L228022516)

7.3 Übertragungsgeräte



Type: COMBOX
N°: FG021010
Type: COMBOX GEH
N°: FG021006



Type: ComBOX MFANT
N°: FG021011



Type: COMBOX ANT WH
N°: FG021012

SMS transmission device ComBOX

For use as a communications medium for automatically forwarding information and events from the fire alarm system (e.g. alarm and fault messages, servicing requests etc.) via SMS. External data communications are carried out over the mobile phone network, with a built-in GSM modem being used to transmit the SMS. The data to be transmitted are filtered in the fire alarm control panel, transmitted to the ComBOX and then sent on from there to up to 100 freely programmable telephone numbers.

- integrated dual band GPRS data modem (GSM900/GSM1800)
- an RS 422 / 485 interface for configuration and communications
- two RS 232 interfaces for communications
- 16 inputs, which can either be digitally or analogue controlled
- Remote configuration of important operating parameters by SMS/GPRS
- Power supplied by the fire alarm control panel's batteries (also in the event of a power failure)
- up to 100 participants (telephone nos.) can be freely configured
- Participants can be grouped
- data transmission via GSM-aerial
- sheet steel case with DIN-rail in Integral design

Operating voltage:	12 to 30 VDC
Power consumption:	ca. 100 mA without switching outputs, without modem
Data transmission:	GSM Modem
Ambient temperature:	+5° to +55°C
Dimensions:	55 x 75 x 150mm (HxWxD)
Dimensions case:	300 x 345 x 100mm (HxWxD)
Protection category:	IP 20
Weight:	ca. 230 g
Interfaces:	1 x RS 422 / RS 485; 2 x RS 232 16 inputs, 8 outputs

Accessories

	Type	No.
GSM magnetic foot aerial	ComBOX MFANT	FG021011
GSM aerial with wall mounting bracket	ComBOX ANT WH	FG021012
ComBOX case, red RAL 3000, lockable	ComBOX GEH	FG021006
Interface converter RS232 to RS485/RS422	ADAM 4520	FG020212
Service PC cable	KAB SPC	FG81719
Glass tube fuse 2.5A T 5x20	ZUB SICH 2,5T	IS625028

Transmission device 2002E

For transmitting hazard messages and/or technical alarms over an analogue telephone connection, in the form of spoken texts to as many telephone users as required, and/or in the form of digital signals to one or several alarm receiver systems. When connected to Schrack Seconet fire alarm control panels, a DC/DC stabiliser module must be used for converting the 24 V power into the 12V operating voltage required by the transmission device.

Operating voltage:	10,2 to 15 V DC
Operational current uptake:	ca. 150 mA at 12 V, ca. 105 mA at 24 V
Dimensions:	205 x 250 x 55 mm (HxWxD)
Environmental protection class:	class II in accordance with VdS 2110
VdS-approval:	G105806

Type: 2002E
N°: 100073171

DC/DC stabiliser module:
Type: DCDC STM
N°: 100046033

7.4 Sounders & beacons



Type: BL V4 RT
N°: FG020147 (red)

Type: BL V4 OR
N°: FG020144 (orange)

Flashlight V4

Surface mounted flashing light to indicate a fire alarm visually.

Operating voltage:	24 VDC
Alarm current:	250 mA
Flashing frequency:	1 Hz
Protection category:	IP 65
Ambient temperature:	-25° to +40°C
Relative air humidity:	95% at 40°C
Colour:	red or orange
Dimensions:	88 x 88 x 81 mm
Weight:	240 g
VdS-approval:	G28714



Type: SIRBL VTB01
N°: FG020342 (red IP43)

Type: SIRBL VTB02
N°: FG020343 (red IP65)

Type: SIRBL VTB03
N°: FG020344 (white IP43)

Type: SIRBL VTB04
N°: FG020345 (white IP65)

Combination siren and flashing light

Combined siren with built-in flashing light, suitable for indoor and outdoor usage. Sound type and volume can be set using DIP switches. When connected to a standard base, the device fulfils protection class IP 43 requirements, and with a high base, fulfils IP 65 requirements.

Operating voltage:	18 to 35 VDC
Alarm current:	41 mA max. (dependent on sound)
Signal volume:	88 to 109 dB @ 1 m (dependent on sound)
Signal frequency:	440 to 2900 Hz
Types of sound:	32 (can be set)
Protection category:	IP 43 / IP 65
Ambient temperature:	-20° to +70°C
Case colour:	white or red
Dimensions:	93,6 x 89,6 mm (D x H)
Weight:	240 g



Type: BA-FOL-R
N°: FG030452 (red)

Type: BA-FOL-W
N°: FG030453 (white)

Loop flashlight BA-FOL

Addressable flashlight for optical indication of a fire alarm inside rooms suitable for the direct connection to the Integral loop technology. The flashlight is available with white or red housing. Adjusting the flash rate and the light intensity is carried out by means of a DIP-switch.

Operating voltage:	15 to 30 VDC
Alarm current:	6,5 mA @ 24 VDC
Quiescent current:	475 µA
Signal transmission:	serial, 2 wire technology
Connection:	screw clips, max. 2,5 mm ²
Flashing frequency:	0,5 Hz (slow) or 1 Hz (fast)
Short circuit isolator:	integrated
Protection category:	IP 21c
Ambient temperature:	-10° to +50°C
Dimensions:	93 x 93 x 54 mm (HxWxD)
Case colour:	white or red
Case material:	ABS
Weight:	110 g



Type: BL D OR
N°: FG020161

Revolving Mirror Light

Optical signalling device for indoor and outdoor installation. Shipped incl. halogen lamp.

Operating voltage:	230 VAC
Alarm current:	170 mA
Mounting:	on floor, on a bracket or on a pipe
Rotating speed:	180 U/min.
Protection category:	IP 65
Ambient temperature:	-30° to +60°C
Case:	black, impact resistant ABS/polycarbonate
Dome:	Polycarbonate, shock-resistant, transparent amber
Dimensions:	130,9 x 216 mm (DxH)
Weight:	680 g

Accessories	Type	No.
Wall mounting bracket	BL D ORW	FG020162



Type: BL CWB EX RT
N°: FG020380 (red)

Type: BL CWB EX GE
N°: FG020381 (yellow)

Flashing light CWB for hazardous areas

The CWB-ATEX series of flashing lights are made of an explosion-proof construction and are used to visibly announcement a source of danger in category 2G, 2D, 3G and 3D work places where there is a risk of explosion. The case is made of aluminium, thus making it suitable for use in all chemical and petrochemical facilities as well as offshore facilities. The high protection class, and the units' stable mechanical construction allow them to be used in the harshest operational conditions.

Operating voltage:	22 to 26,5 V
Rated current draw:	230 mA
Rated power:	5,6 W
Flash frequency:	ca. 1 Hz
Flash energy:	5 Joule
Connection type:	screw clips
Terminal area:	max. 2 x 4 mm ² single core, max. 2 x 2,5 mm ² fine core
Cable inlet:	1x M20 x1,5 stopper fitted cable gland terminal areas 6-13mm, 1x stopper M20x1,5
Protection category:	IP 66 (EN 60529)
Ambient temperature:	-20° to +50°C
Relative air humidity:	90%, without condensation
Dimensions:	70 x 260 mm (DxH)
Case material:	Aluminium alloy
Dome material:	Polycarbonate (temperature resistant)
Colour:	Black base, yellow case
Dome colour:	red or yellow
Weight:	ca. 1,3 kg
Marking:	II 2G EEx de IIC T, II 2G EEx de IIC T, II 2D T 85 °C IP66
Approval:	LCIE 02 ATEX 6113
Conformity certification:	CE 0344 in accordance with 94/9EG

Accessories	Type	No.
Wall mounting bracket	BL CWB EX WW	FG020382



Type: BL V6 EX
N°: FG020276

Flashing light for hazardous areas

Robust explosion-proof flashing lights, suitable and approved for use in areas where there is a risk of explosion.

Operating voltage:	24 VDC
Peak current draw:	2.5A for a duration of ~100µs when charging
Power consumption:	860 mA typ.
Flashing frequency:	1 Hz
Protection category:	IP 66
Ambient temperature:	-35° to +60°C
Dimensions:	ca. 280 x 150 mm
Colour:	Case: red, Dome: orange
Weight:	4,6 kg
Ignition protection class:	„d“ (explosion proof)
Approval:	BAS 02 ATEX 0212X



Type: SIR Y04 R
N°: FG020145 (red IP 54)

Type: SIR Y04 R66
N°: FG020163 (red IP 65)

Type: SIR Y04 W66
N°: FG020218 (white IP 65)

Siren Y04

To acoustically indicate a fire alarm, for indoor and outdoor use. 32 different alarm signals can be chosen from using a 5 way DIP switch. The Y04 siren can be delivered in red or white with protection class IP 54 or IP 65.

Operating voltage:	10 to 35 VDC
Alarm current:	35 mA at 24 V
Volume:	102 dB @ 1 m
Signal frequency:	800 to 1000 Hz
Connection:	screw clips, max. 1,5 mm ²
Protection category:	SIR Y04 (x): IP 54 SIR Y04 (x)66: IP 65
Ambient temperature:	-25° to +55°C
Relative air humidity:	95% at 40°C
Case:	red/white ABS
Dimensions:	88 x 88 x 80,8 mm
Weight:	215 g
VdS-approval:	G28702
CPD-certificate:	0086-CPD-496705



Type: SIR UP1
N°: FG020122 (red)

Type: SIR UP2
N°: FG020158 (white)

Siren for countersunk mounting

To acoustically signal an alarm in inside rooms. The siren is fitted using 2 screws to the wall or ceiling.

Operating voltage:	10 to 30 VDC
Power consumption:	max. 28 mA
Input surge current:	max. 30 mA
Volume:	96 dB typ. @ 1 m
No. of sounds:	28 (2 sounds can be controlled)
Protection category:	IP 54
Ambient temperature:	-40° to +80°C
Case:	ABS 20UV
Colour:	white RAL 9010, red RAL 3001
Dimensions:	86 x 86 x 49 mm
Weight:	160 g



Type: BA-SOL-R
N°: FG030450 (red)



Type: BA-SOL-W
N°: FG030451 (white)

Loop sounder BA-SOL

Addressable audible device for acoustically signal an alarm inside rooms, suitable for the direct connection to the Integral loop technology. The sounder is available with white or red housing, three different tones can be selected directly from the control panel, the volume level can be adjusted by means of a DIP-switch.

Operating voltage:	15 to 30 VDC
Current consumption:	2,4 mA @ 24 VDC (volume low) 4,8 mA @ 24 VDC (volume high)
Connection:	screw clips, max. 2,5 mm ²
Volume:	89 dB (99 dB) ± 3 dB @ 1 m @ 90°
Possible tones:	DIN 1200 ~ 500 Hz (DIN 33404) Slow Whoop 500 ~ 1200 Hz (EN 2575) Continuous tone 990 Hz (pulse setting can be defined in the control panel)
Short circuit isolator:	integrated
Protection category:	IP 21c
Ambient temperature:	-10° to +55°C
Dimensions:	max. 108 x 96 mm (D x H)
Case colour:	white or red
Case material:	ABS
Weight:	230 g
VdS-approval:	G207151
CPD-certificate:	0786-CPD-20418



Type: CS200
N°: FG020387 (red)



Type: CS200
N°: FG020386 (white)

Siren CS 200

The sounder CS200 is an alarm device for acoustic signalling of a fire alarm in interior rooms in accordance with EN 54-3. The siren is available with white or red case colours and offers 32 different tones which can be set by using fivefold DIP switches. At any adjusted tone a second tone is available as an additional warning and can be used, the loudness of the sounder is adjusted by a turn-switch.

Operating voltage:	18 to 28 VDC
Alarm current:	16 mA at 24 VDC (tone 3)
Volume:	100 dB(A) @ 1 m (tone 3)
Connection:	screw clips, max. 2,5 mm ²
Possible tones (32):	Alternating tone: 800 & 970 Hz DIN: 1200 - 500 Hz Sweep: 800 - 970 Hz
Protection category:	IP 21c
Ambient temperature:	-10° to +55°C
Case:	red or white, ABS
Dimensions:	96 x 62 mm
Weight:	240 g
CPD-certificate:	0832-CPD-0523



Type: SBL 501
N°: FG030570

Type: SBL 501-DB
N°: FG030571

Base sounder SBL 501

Addressable base-mounted siren for use in interior rooms (category type A pursuant to EN 54-3). It is fitted together with a detector and the USB 501 detector base and can be connected directly to Integral loop technology. The tone types are set directly at the fire alarm control panel, the required volume can be set by means of DIP switches. In its standard version it is set up for cable inlet from above, with the SBL 501-DB with a higher base being available for cable inlet from the side.

Operating voltage:	15 to 30 VDC
Quiescent current:	0,5 mA
Current consumption:	1,3 mA @ 24 VDC (volume low) 3,9 mA @ 24 VDC (volume high)
Volume:	80 dB (90 dB) ± 3 dB(A)/m @ 24 VDC
Possible tones:	DIN-Tone: 1200 ~ 500 Hz Slow Whoop: 500 ~ 1200 Hz Continuous tone: 880 Hz
Connection:	screw clips, max. 2,5 mm ²
Short circuit isolator:	integrated
Protection category:	IP 31 D
Ambient temperature:	-10° to +55°C
Dimensions (DxH):	114x32 mm (114x36 mm with high base)
Case:	PC-ABS, white RAL 9003
Weight:	ca. 170 g
VdS-approval:	G208159
CPD-certificate:	0786-CPD-20533



Type: SBL 502
N°: FG030572 (white)



Type: SBL 502-R
N°: FG030573 (red)

Cable inlet from the side:

Type: SBL 502-DB
N°: FG030574 (white)
Type: SBL 502-DBR
N°: FG030575 (red)

Platform sounder SBL 502

Addressable platform siren for use in interior rooms (category type A pursuant to EN 54-3), suitable for the direct connection to the Integral loop technology. The tone types are set directly at the fire alarm control panel, the required volume can be set by means of DIP switches. In its standard version it is set up for cable inlet from above, with the SBL 502-DB(R) with a higher base being available for cable inlet from the side.

Operating voltage:	15 to 30 VDC
Quiescent current:	0,5 mA
Current consumption:	1,3 mA @ 24 VDC (volume low) 3,9 mA @ 24 VDC (volume high)
Volume:	80 dB (90 dB) ± 3 dB(A)/m @ 24 VDC
Possible tones:	DIN-Ton: 1200 ~ 500 Hz Slow Whoop: 500 ~ 1200 Hz Continuous tone: 880 Hz
Connection:	screw clips, max. 2,5 mm ²
Short circuit isolator:	integrated
Protection category:	IP 31 D
Ambient temperature:	-10° to +55°C
Dimensions (DxH):	114x32 mm (114x36 mm with high base)
Case material:	PC-ABS
Case colour:	white RAL 9003, red RAL 3001
Weight:	ca. 165 g
VdS-approval:	G208159
CPD-certificate:	0786-CPD-20533



Type: SIR MBF-6WE
N°: FG020270

Alarm bell

Robust motorised alarm bell with a sonorous tone and high sound output suitable for use indoors.

Operating voltage:	24 VDC
Alarm current:	15 mA
Volume:	94 dB @ 1 m
Ambient temperature:	-10° to +50°C
Relative air humidity:	45 to 85%
Case:	Aluminium
Colour:	red
Dimensions:	150 x 53 (DxH)
Weight:	410 g



Type: SIR HUP1
N°: FG020177 (24V)

Signal horn

Loud small horn with sound funnel, suitable for indoor and outdoor installation. Available in a 24V or 230V version, with values which are different for the 230V version being listed in brackets.

Operating voltage:	24 VDC (230 VAC)
Alarm current:	70 mA (15mA)
Volume:	98 dB @ 1 m
Connection:	screw connection, cable of up to 9 mm
Installation:	with sound emission aperture facing downwards
Protection category:	IP 43
Ambient temperature:	-20° to +70°C
Colour:	grey
Dimensions:	170 x 70 x 78 mm
Weight:	160 g
Case:	ABS, impact resistant

Type: SIR HUP2
N°: FG020178 (230V)



Type: SIR Y04 EX
N°: FG020273

Siren for hazardous areas

Robust intrinsically safe multisignal sirens, suitable and approved for use in areas where there is a risk of explosion.

Operating voltage:	24 VDC (via Zener barrier)
Alarm current:	23 mA
Connection:	screw clips, max. 1,5 mm ²
Volume:	99 dB @ 1 m
Signal frequency:	800 to 1000 Hz
Protection category:	IP 55
Ambient temperature:	-25° to +40°C
Dimensions:	178 x 88 x 80,8 mm
Case colour:	red
Weight:	430 g
Approval:	BAS 02 ATEX 0212 X

7.5 Holding magnets



Type: HM ANK01
N°: FG020099
Type: HM ANK04
N°: FG020227

Armature

Flexible armature on synthetic mounting plate. Mounting using four countersunk screws.

Diameter of armature plate:	HM ANK01: 55 mm HM ANK04: 65 mm
Dimensions:	HM ANK01: 55 x 55 x 18 mm (HxWxD) HM ANK04: 75 x 75 x 23 mm (HxWxD)



Type: HM ANK02
N°: FG020100

Armature

Pivoting armature on synthetic mounting plate. Mounting using four countersunk screws.

Diameter of armature plate:	55 mm (other diameters upon request) Pivoting range:
Dimensions:	ca. 2 x 60° 55 x 55 x 50 mm (HxWxD)



Type: HM ANK03
N°: FG020226

Telescopic Armature

Moveable armature plate with telescopic damper. Mounted using four countersunk screws.

Diameter of armature plate:	55 mm
Spring deflection:	20 mm
Dimensions:	55 x 55 x 79 mm (HxWxD)



Type: HM 04
N°: FG020222

Door holding magnet on mounting plate

Electronic holding magnet on a plastic mounting place with concealed connection clips. Attached using 4 countersunk screws.

Operating voltage:	24 VDC
Wattage:	1,5 W
Magnetic contact area:	Ø 50 mm (other diameters upon request)
Maximum holding strength:	490 N
Protection category:	IP 40
Dimensions:	55 x 55 x 35 mm (HxWxD)



Type: HM 02
N°: FG020098

Holding magnet for surface mounting

Electromagnetic holding magnet with circuit breaker button in a plastic case for surface mounting. Supplied with PG cable glands and blanking stoppers.

Operating voltage:	24 VDC
Wattage:	1,5 W
Magnetic contact area:	Ø 50 mm (other diameters upon request)
Maximum holding strength:	490 N
Protection category:	IP 40
Dimensions:	120 x 85 x 38 mm (HxWxD)



Type: HM 05
N°: FG020223

Countersunk holding magnet

Electronic holding magnet for countersunk fitting without a break key.

Operating voltage:	24 VDC
Wattage:	1,5 W
Magnetic contact area:	Ø 63 mm
Maximum holding strength:	700 N
Protection category:	IP 40
Dimensions:	85 x 85 x 15 mm (HxWxD)



Type: HM 06
N°: FG020224

Door holding magnet for floor mounting

Electromagnetic door holding magnets for floor mounting in an aluminium case and with a circuit breaker button. The electronic connection is done before floor mounting, by connecting the unit to a two pole terminal.

Operating voltage:	24 VDC
Wattage:	1,5 W
Magnetic contact area:	Ø 50 mm (Ø 63 mm upon request)
Maximum holding strength:	490 N
Protection category:	IP 65
Dimensions:	109 x 120 x 86 mm (HxWxD)



Type: HM 07
N°: FG020225

Holding magnet for floor or wall mounting

Electromagnetic door holding magnets for floor or wall mounting in an aluminium case and with a circuit breaker button with a moveable head (can be fixed straight or at a right angle by means of a hexagon socket screw).

Operating voltage:	24 VDC
Wattage:	1,5 W
Magnetic contact area:	Ø 50 mm
Maximum holding strength:	490 N
Protection category:	IP 40
Dimensions:	at a right angle: 85 x 150 x 90 mm
	straight: 185 x 80 x 90 mm

7.6 Power supply units



Type: EPSU 24/10
N°: FG020310

Temperature sensor:
Type: EPSU 24/10 TS
N°: FG020311

Power supply unit EPSU 24/10

External 24V/10A power supply equipment in accordance with EN 54-4 and VdS 2541 for supplying power to external devices or special fire alarm systems (e.g. smoke aspirating systems etc.), which are connected to fire alarm systems. The power supply should always be fitted with a temperature sensor (No. FG020311), particularly when used where there are large variations in temperature, where the ambient temperature is very low, as well as to increase the battery level of the device, in order to ensure that the charging voltage is maintained. Ambient temperatures of more than 40°C should be avoided at all costs, since such temperatures drastically reduce battery life.

- Monitoring of system voltage
- Monitoring of battery circuit
- Cyclical battery test to identify considerably aged batteries
- Temperature monitoring by means of external temperature module
- Potential-free contacts to ensure that faults can be reported
- Active Power Factor control (PFC)
- Low battery protection
- Suitable for parallel connection
- Maximum output current limited in the event of a short circuit

Rated input voltage:	230 VAC -15/+10%
Rated output voltage:	24 VDC
Rated output current:	10 A
Charge voltage:	26,4 VDC ± 0,4%
with temperature monitoring:	27,3 to 26,2 VDC at 0° to +40°C
Low battery protection and load shedding:	at 20,4 VDC ± 0,4%
Battery type:	lead rechargeable, no maintenance required
Fuses for DC output circuits:	15 A / 10 A t (external)
Protection category:	IP 20
Storage temperature:	recommended 0° to +30°C, permissible 0° to +50°C
Operating temperature:	+15° to +40°C
with temperature monitoring:	0° to +40°C
Dimensions:	216,5 x 90,5 x 185 mm (HxWxD); incl. mounting plate and connection clips
Weight:	ca. 1,6 kg
VdS-approval:	G204050



Type: EPSU 24/10 WS
N°: FG020450

Wall-mounted cabinet with built-in EPSU 24/10

Wall-mounted cabinet with built-in EPSU 24/10 power supply, external temperature sensor and 10 individually fused terminals for external consumers. The cabinet is suitable to contain up to two 40 Ah or one 70 Ah rechargeable batteries. The input/output module (e.g. BA OI3) for the transmission of the operating conditions to the fire alarm panel as well as the rechargeable batteries to be built in, must be ordered separately.

Dimensions:	600 x 445 x 225 mm (HxWxD)
Case colour:	red RAL 3000



Type: EPSU 24/03
N°: FG020420

Power supply unit EPSU 24/03

External 24V/2.6A power supply equipment in accordance with EN 54-4 and VdS 2541 for supplying power to external devices or special fire alarm systems (e.g. smoke aspirating systems etc.), which are connected to fire alarm systems. The device is shipped fitted with a temperature sensor, so that in particular when used where there are extreme temperature fluctuations, or where the ambient temperature is exceptionally low, in order to increase the batteries' operating life, and so that the charging voltage can be ensured accordingly. Ambient temperatures of more than 40°C should be avoided at all costs, since such temperatures drastically shorten battery life.

Rated input voltage:	230 VAC +15/-15%
Rated output voltage:	24 VDC
Rated output current:	2,6 A
Charge voltage:	26,4 VDC ± 0,4%
Low battery protection and load shedding:	at 20,4 VDC ± 0,4%
Battery type:	lead rechargeable, no maintenance required
Fuses for DC output circuits:	5 A / 3 A t (external)
Protection category:	IP 20
Storage temperature:	recommended 0° to +30°C, permissible 0° to +50°C
Operating temperature:	recommended +10° to +20°C permissible 0° to +45°C
Dimensions:	152,5 x 72 x 130 mm (HxWxD)
Weight:	ca. 750 g
VdS-approval:	G205136



Type: EPSU 24/03 WS
N°: FG020452

Wall-mounted cabinet with built-in EPSU 24/03

Wall-mounted cabinet with built-in EPSU 24/03 power supply, external temperature sensor and 10 individually fused terminals for external consumers. The cabinet is suitable to contain up to two 40 Ah or one 70 Ah rechargeable batteries. The input/output module (e.g. BA-OI3) for the transmission of the operating conditions to the fire alarm panel as well as the rechargeable batteries to be built in, must be ordered separately.

Dimensions:	600 x 445 x 225 mm (HxWxD)
Case colour:	red RAL 3000



Type: EPSU WBS
N°: FG020454

Wall-mounted battery cabinet

Wall-mounted battery cabinet for holding up to 4 x 40Ah or 2 x 70Ah batteries. All necessary connecting terminals and connection cables for all possible configurations are supplied with the wall-mounted battery cabinet.

Dimensions:	600 x 445 x 225 mm (HxWxD)
Case colour:	red RAL 3000



Type: EPSU 24/03 C
N°: FG020456

Power supply unit EPSU 24/03 C

External 24V/2.6A power supply equipment in accordance with EN 54-4 and VdS 2541 for supplying power to external devices or special fire alarm systems (e.g. smoke aspirating systems etc.), which are connected to fire alarm systems. The power supply unit works in a standby-parallel-operation mode, and ensures, together with a lead battery, a reliable DC-power supply in case of mains failure. The EPSU 24/03 C contains 5 separately fused outputs for external consumers with monitored fuses.

The steel sheet case is suitable to fix two rechargeable 24 Ah batteries and contains a rail, which could be used to fix an I/O module or additional terminals. The operating conditions are indicated on the front panel by means of LEDs and can be optionally transmitted to the Fire alarm operating panel by using an input/output module (e.g. BA-OI3). The rechargeable batteries as well as the input/output module must be ordered separately.

Rated input voltage:	230 VAC +15/-15%
Rated output voltage:	24 VDC
Rated output current:	2,6 A
Charge voltage:	26,4 VDC \pm 0,4%
Low battery protection and load shedding:	at 20,4 VDC \pm 0,4%
Battery type:	lead rechargeable, no maintenance required
Fuses for DC output circuits:	5A / 3A t (external)
Protection category:	IP 30
Storage temperature:	recommended 0° to +30°C, permissible 0° to +50°C
Operating temperature:	recommended +10° to +20°C permissible 0° to +45°C
Dimensions case:	360 x 460 x 140 mm (HxWxD)
Case colour:	red RAL 3000
Weight without batteries:	6,7 kg
Weight per battery:	ca. 9 kg
VdS-approval:	G207154

7.7 Hold-open systems



Type: ORS 142
N°: FG030600

Optical smoke switch ORS 142

The ORS 142 operates on the scattered light principle and provides early detection of smouldering fires and open fires with smoke formation. An additional temperature sensor is triggered when the ambient temperature reaches 70°C. The ORS 142's electronic processing circuits also monitors the detector's smoke measuring chamber for contamination and faults (measuring chamber failure). Long term alarm threshold compensation ensures that the difference between the normal signal value and the alarm threshold remains constant, until the threshold value for strong contamination is reached. A relay contact opens in the event of an alarm as well as in the event of a power failure. The operating state of the unit is indicating visually by means of an LED.

Operating voltage:	18 to 28 VDC
Current draw at 28 VDC:	quiescent current: 21 mA alarm current: 10 mA, fault current: 25 mA
Smoke detection:	conformant to EN 54-7
Temperature:	70 °C
Relay contact:	Opener
Switching voltage:	30 VDC
Switching current:	1 A
Switching power:	30 W
Protection category:	IP 42
Ambient temperature:	-20° to +80°C
Dimensions incl. base:	80 x 65 mm (DxH)
Colour:	white, similar to RAL 9010
DIBt-approvals:	Z-6.5-1571, Z-6.5-1725



Type: TDS 247
N°: FG030601

Rate-of-rise switch TDS 247

Rate-of-rise switch with maximum temperature sensor, for detection of open fires with or without smoke formation. The TDS 247 detects the ambient temperature, evaluates the measured values using special algorithms and then checks the results, amongst other things, for their plausibility. It reacts both to the speed of the increase in temperature as well as to the programmed threshold value having been exceeded. The TDS 247 is used, when there are disturbing factors, such as dust, smoke or steam arising during operation. It is not allowed to be used in hold-open systems for barriers in escape routes. The operating state of the unit is indicating visually by means of an LED.

Operating voltage:	18 to 28 V DC
Current draw at 28 VDC:	quiescent current: 21mA alarm current: 10 mA, fault current: 25 mA
Temperature detection:	conformant to EN 54-5 (class A1)
Maximum range:	+54° to +65°C
Relay contact:	Opener
Switching voltage:	30 VDC
Switching current:	1 A
Switching power:	30 W
Protection category:	IP 42
Ambient temperature:	-20° to +80°C
Dimensions incl. base:	80 x 65 mm (DxH)
Colour:	white, similar to RAL 9010
DIBt-approvals:	Z-6.5-1571, Z-6.5-1725



Type: 143A
N°: FG030602

Mounting base 143A

The 143A base with a bayonet fitting is suitable for attaching the ORS 142 optical smoke switch and the TDS 247 rate-of-rise switch and is suitable for surface mounting in dry rooms. For the electrical connection with the detector, the base has contact springs enclosing the detector's connecting pins on two sides. The contact springs are mounted on terminals with a lift cage to prevent pinching. The base has six terminals, with terminal 6 not having a connection to the detector, being intended merely as a supporting structure.

Cable entry:	max. 9 mm
Protection category:	IP 42
Dimensions:	80 x 33 mm (DxH)
Colour:	white, similar to RAL 9010



Type: NG 519
N°: FG030630

Power supply unit NG 519

Power supply and controller unit for hold-open devices. containing an in-phase regulator and thermal protection (special technology switches the device off to prevent relay contacts from sticking in the event of a short circuit). Additionally it contains a slot to fit the optional module SAB 04.

Rated input voltage:	230 VAC
Power consumption:	21 VA
Rated output voltage:	24 VDC
Output current:	350 mA
Output power:	8,4 W
Relay contact:	potential-free changeover contact
	Switching voltage: 30 VDC
	Switching current: 1 A
	Switching power: 30 W
Protection category:	IP 30
Overvoltage category:	II
Ambient temperature:	+5° to +40°C
Cable entry points:	Diameter 12 mm (2 on top, 3 below)
Case material:	Polycarbonate
Colour:	white, similar to RAL 9010
Installation:	wall mounting, in any direction
DIBt-approval:	Z-6.5-1725



Type: HAT 02
N°: FG030640

Manual triggering device HAT 02

Manual triggering device for installation in dry rooms, to manually actuate hold-open devices in accordance with DIBt regulations.

Contact type:	Opener
Switching voltage:	30 VDC
Switching current:	1 A
Protection class:	IP 20
Colour:	Case white, rocker switch red
Installation:	Surface / countersunk mounting
Inscription:	„Tür schließen“

Type: FAD 01
N°: FG030631

Connection case FAD 01

The connection case for hold-open systems is installed directly next to the doors which are to be fitted with a hold-open system, and is used to connect all the components in a hold-open system. The connection for the smoke switch and hold-open devices is electronically limited to 900mA. In addition, this output also has its own relay contact. This connection card contains special disablement technology to prevent the relay contacts from sticking in the event of a short circuit.

Rated input voltage:	24 VDC
Rated output voltage:	24 VDC
Output current:	900 mA
Output power:	21 W
Relay contact:	1 potential-free, changeover contact Switching voltage:250 VAC / 30 VDC Switching current:5 A @ 24 VDC, 3 A @ 30 VDC
Protection class:	IP 30
Ambient temperature:	+5° to +40°C
Cable entry points:	diameter 12 mm (2 on top, 3 below)
Case:	Polycarbonate
Colour:	white, similar to RAL 9010
Installation:	on a wall, horizontally or vertically
DIBt approvals:	Z-6.5-1725

Type: SAB 04 SET
N°: FG030632

Set signal indicator unit SAB 04 set

Connection card for saving alarm information if the connected smoke switch is triggered, with a red alarm LED and reset button. We recommend to use the SAB 04 when optical and acoustical devices are required, to ensure an indication during the whole closing progress until the reset. Suitable for installation in power supply units NG 519, NAG 03 and NAG 04 as well as in FAD 01.

Type: TSK01
N°: FG030650

Installation kit TSK 01 for door controller card

For retrospective fitting in the NG 521 unit, acts as a controller and connection card for hold-open systems and contains mutually independent switching circuits, each for a single hold-open system. The door controller card sends a collective fault message in the event of the occurrence of faults such as power failures, battery failures, batteries being discharged, fuse failures and earth faults, which can allow external signalling devices to be controlled. A potential-free changeover contact is available for forwarding of alarms for each control circuit.

Rated input voltage:	24 VDC
Rated output voltage:	24 VDC
Output current:	800 mA
Output power:	19.2 W
Relay contact:	1 potential-free, changeover contact Switching voltage:30 VDC Switching current: 1 A Switching capacity:30 W
Ambient temperature:	+5° to +40°C
Installation:	to be fitted in NG 521 unit
DIBt approvals:	Z-6.5-1725



Type: NG 521
N°: FG030660

Power supply unit NG 521

The power supply is used to supply power to smoke switch systems, which must also continue to work in the event of a power failure and power fluctuations. The emergency power supply batteries must be ordered separately.

- Resistance against short circuits, secondary-switched
- Temperature dependent maintenance charging
- Acoustic and visual announcement of power, battery and fuse failures.
- Low battery protection
- Fitting slot for compulsory TSK 01 door controller card
- Space for fitting rechargeable battery (up to 12 V/10 Ah)

Rated input voltage:	230 VAC
Power consumption:	150 VA
Rated output voltage:	24 VDC
Output voltage range:	21.6 to 27.6 VDC
Output current:	800 mA
Output power:	19.2 W
Battery charging current:	1.7 A
Battery charge monitoring:	yes
Low voltage message after power failure:	< 23 VDC
Low battery protection:	< 16.5 VDC
Protection class	IP 50
Protection category:	I
Ambient temperature:	+5° to +40°C
Cable entry points:	6 x 18 mm
Case:	sheet steel
Colour:	electric grey
Installation:	wall mounted
DIBt approvals:	Z-6.5-1725

Type: BA-2AH
N°: FG030670

Emergency power supply battery BA-2Ah

12 V/2 Ah emergency power supply battery. For 24V two batteries must be fitted.

Dimensions: 69 x 36 x 180 mm (HxWxD)

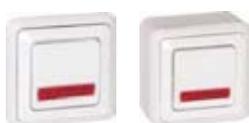


Type: BAZ
N°: FG020131

Control unit BAZ

For use as a hold-open system for fire prevention doors, where autarchic door controllers are required. In the event of an alarm, the fire prevention doors are automatically closed, without a fire alarm control panel being required.

Input voltage:	230 VAC
Output voltage:	24 VDC
Rated current:	400 mA
Detectors:	max. 8 pcs SLK or DCC-1E with YBF detector base
Controller lines:	2
Protection class:	IP 64
Case:	ABS RAL 7035 (light grey)
Dimensions:	135 x 170 x 80 mm (HxWxD)
Weight:	0.9 kg
Approvals:	VdS, FSA 89005



Type: BAZ UTU
N°: FG020133 (UP)
Type: BAZ UTA
N°: FG020148 (AP)

Circuit-breaker button for BAZ

To manually shut a fire prevention door, in order to checking whether the hold-open system is working properly even without a simulated fire.

Dimensions surface mounted button:	80 x 80 x 35 mm (HxWxD)
Dimensions countersunk button:	80 x 80 mm (front panel), suitable for countersunk case Ø 55 mm

7.8 Cables

Cable	Type	No.
Cable red LF-2YY 2x2x0,5 for MMI BUS and subcontrol unit loop	KAB MMI RT	L228022516
Cable red shielded LF-2YACVY 1x2x0,5 for MMI BUS and subcontrol unit loop	KAB MMI RT S	L228022518
Firealarm cable red shielded 1x2x0,8 for loop technology	KAB 1*2*0,8 S	L198200800
Firealarm cable blue shielded 1x2x0,8 for loop technology (-20 to +105°C)	JB-Y(ST)Y 1X2X0,8BL	L198200805
Firealarm cable red LF-XYX 3x0,6	KAB 3*0,6 RT	L198300607
Firealarm cable red LF-XYX 4x0,6	KAB 4*0,6 RT	L198400607
Firealarm cable red F-YAY10x2x0,6	KAB 10*2*0,6 RT	L225010267
Firealarm cable red LF-XYX 2x0,6	KAB 2*0,6	L198200607
Cable YMM 2x2,5 grey	KAB 2*2,5	MM000110
Cable YYSCH 3x0,6 grey, 100m	KAB 3*0,6 GR	MM000111
Cable YYSCH 5x0,6 grey, 100m	KAB 5*0,6 GR	MM000112
Cable YMM-J 3x1,5 no marking, red	KAB 3*1,5	MM000113
Cable YMM-J 3x2,5 no marking, red	KAB 3*2,5	MM000114

7.9 Inscription labels & stickers

	Label	Dimensions	No.
	Sticker „Brandmelderzentrale“	173 x 51 mm	FG27803
	Sticker „Brandmeldesystem Teilzentrale/Blackbox“	297 x 110 mm	FG28405
	Sticker „Feuerwehrpläne“	173 x 51 mm	FG27801
	Sticker „Feuerwehrpläne“	297 x 105 mm	FG27800
	Sticker with arrow	292 x 103 mm	FG27802
	Sticker "Brandmelder" red/white for detector inscription in false ceilings	90 x 20 mm	FG27842
	Sticker "Brandmelder" red/white for detector inscription in false ceilings	87 x 27 mm	FG28406
	Sticker "Schrack Logo" black	40 x 10 mm	FG28407
	Sticker grey ring for MTD 533 1 pcs.= 20 rings	d=2 cm	FG28422
	Detector inscription sign for detector base USB 501 for labels up to 45 x 75 mm		FG030138
	Detector inscription sign for high-ceilings with numbers	120 x 175 mm	FG28399
	Detector inscription sign for high-ceilings white	120 x 175 mm	FG28398
	Detector inscription card	80 x 55 mm	FG28400
	Sticker „Achtung Brandfallsteuerungen“ 1 pcs. = 6 Sticker	174 x 15 mm	FG28408
	„Achtung“ - Sticker without inscription 1 pcs. = 6 Sticker	174 x 15 mm	FG28409
	Security seal 1 pcs. = 20 Sticker	50 x 20 mm	FG28410

7.10 Printed items & brochures

Brochures

	No. German	No. English
Integral EVOLUTION	7PRST584-D	7PRST584-E
Schrack BMZ Integral	B-PR-574D	B-PR-574E
Schrack BMZ Integral C	7PRST575-D	B-PR-575E
Schrack BMZ Integral C1	7PRST576-D	7PRST576-E
Schrack SLZ Integral	7PRST580-D	7PRST580-E
Schrack SLZ Integral C	B-PR-582D	7PRST582-E
Integral system overview	B-PR-587D	B-PR-587E
Integral C system overview	B-PR-588D	B-PR-588E
BMZ Network SecoNET	7PRST578-D	7PRST578-E
Integral RemoteControl Panel	7PRST581-D	7PRST581-E
Management System SecoLOG	B-PR-571D	7PRST571-E
Schrack Fire Alarm Systems	B-PR-577D	B-PR-577E
High-End Operating Panel	B-PR-579D	7PRST579-E
Multisensor detector MTD 533	B-PR-585D	B-PR-585E
AirSCREEN ASD 535	B-PR-590DE	B-PR-590EN
ComBOX	7PRST586-D	--

Manuals & printed matters

	No. German	No. English
Control book for Fire Alarm Systems	B-HB-003DE	--
Operating manual Integral/C/C1	B-HB-002DE	B-HB-002DE
Short operating instructions Integral/C/C1	B-HB-001D	B-HB-001E
Operating manual SecoLOG (D/E)	FG022027DE	FG022027DE
Product catalogue 2009	B-HB-004DE	B-HB-004EN



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