



Version 04.2010

## **Catalog Appendix 2010**

805683



**External Power Supply DCU 2403**



### Features

- Reversible output voltage 12 V DC or 24 V DC
- Output current 6 A at 12 V DC or 3 A 24 V DC
- Simple integration into esserbus/ esserbus-PLus
- Internal service LED displays
- Four floating relay outputs
- Monitoring of mains voltage with selectable delay time
- Individual battery monitoring for emergency power operation
- Disengagable ground fault monitoring
- Front door with cover contact

### Approval VdS

External power supply in a compact metal housing for up to two 12 V/ 24 Ah batteries. This power supply facilitates an uninterruptable supply of power. Integration into the esserbus/esserbus-PLus optional via optional adapter card (Part-No. 805684) and esserbus Transponder (Part No. 808613.10).

Four floating relay outputs are available for the transmission of disturbances (power failure, ground fault, battery failure and collective fault). External LED display for operation and collective fault on the lockable front door, internal LEDs for detailed recognition of emergency power operation, individual monitoring of battery failure and ground fault.

### Technical Data

Rated voltage	230 V AC
Nominal frequency	50 ... 60 Hz
Output voltage	12 V DC or 24 V DC; ± 1 % (temperatur controlled)
Output current	6 A @ 12 V DC / 3 A @ 24 V DC
Battery capacity	max. 48 Ah @ 12 V DC / max. 24 Ah @ 24 V DC
Battery charge voltage	13.8 V DC @ 20 °C
Contact load relay	max. 125 V / 1.5 A / 60 VA

### Fuses

Battery fuse	T 4 A per Battery
Output fuse	T 4 A per output
Connection terminal	max. 2.5 mm <sup>2</sup>
Ambient temperature	-5 °C ... +40 °C
Storage temperature	-20 °C ... +45 °C
Type of protection	IP 30
Housing	sheet steel
Color	gray, similar to RAL 7035
Weight	approx. 23 kg incl. 2 Batteries je 12 V DC / 24 Ah
Dimensions	W: 310 x L: 410 x D: 211 mm
CE-certificate	0786-CPD-20935



- Ready-made cables for connecting 12 V/ 24 Ah SB batteries
- Housing lock with key
- Accessory pack (contains: dummy cover, insert jumper for device fuses, jumper for adjusting output voltage)

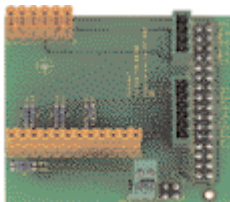
### Accessories

808613.10 esserbus transponder 4 IN / 2 OUT

805684



**Adapter for DCU 2403**



Pluggable adapter card for external power supply (Part No. 805683) for integration into the esserbus/esserbus-PLus.

### Accessories

805683 External Power Supply DCU 2403  
 808613.10 esserbus transponder 4 IN / 2 OUT

805560



EMC shield for IQ8Quad detector base



In Fire Alarm Systems where a high EMI load (e.g. by fluorescent lamps or electrical control devices) must be expected it is recommended to mount the EMI-Module in the standard detector base (Part No. 805590) of the corresponding fire alarm detectors.

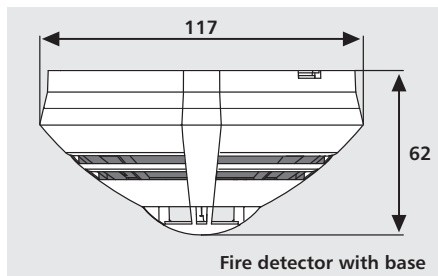


The EMI-Module must only be operated in conjunction with standard IQ8Quad detector base (without relay board) and only for detectors without integrated alarm devices (Part No. 802382 to 802386, incl. adapted variants).



10 pcs

## IQ8Quad Ex (i) Explosion-proof series

**Technical Data**

General detector data according to ATEX:

Max. Input voltage (Ui)	21 V
Max. Input current (Ii)	252 mA
Max. Output current (Io)	10 mA
Max. internal capacity (Ci)	1 nF
Ambient temperature (Ta)	-20°C ... +70°C
Examination Certificate	TÜV 09 ATEX 554910
Category	II 2G (with Ex-Barrier Part No. 804744 or 764744)
Explosion protection	Ex ib IIC T4

General detector data:

Operating voltage	8 ... 21 V DC
Alarm current @ 9 V DC	ca. 18 mA
Air speed	0 ... 25,4 m/s
Storage temperature	-25 °C ... +75 °C
Air humidity	max. 95% humidity (without condensation)
Type of protection	IP 43 (with base + option)
Material	ABS
Color	white, similar RAL 9010
Weight	approx. 110 g
Dimensions	Ø: 117 mm; H: 49 mm (incl. base 62 mm)



Additional detectors for the explosion zones can be found in the chapters Manual Call Points and Special Detectors. Detailed information about installation and operation can be found in the documentation article no. 798920.

All of the following IQ8Quad explosion-proof fire detectors must be operated with the 805590 base. In the case of operation in standard zones, no individual addressing is possible!

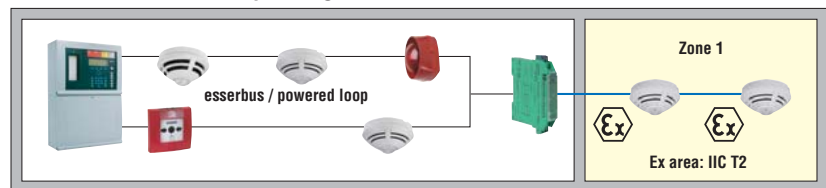
For usage in Zone 1 and Zone 2 in case of operation

- with individual addressing the Ex-barrier part no. 804744,
- in conventional zones the Ex-barrier part no. 764744 must be used!

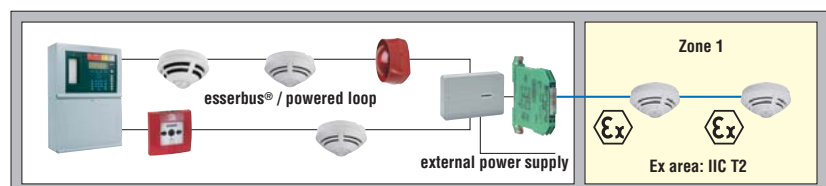
The Ex-barrier separates intrinsically safe and non-intrinsically safe circuits before the explosion prone area to be monitored (explosion zone).



The detector base is not included with the delivery of the detectors.

**Individual addressable operating**

Ex-Barrier (Part No. 804744)

**Conventional operating**

Ex-Barrier (Part No. 764744)



esserbus transponder 4 zone / 2 relay

Application example

803271.EX



IQ8Quad Rate-of-rise Detector Ex (i)



VdS G 209223

Automatic heat detector with quick semiconductor sensor for the reliable recognition of fires with fast rate of temperature rise as well as integrated fixed temperature heat function for the recognition of fires with slow temperature rise. Intelligent fire detector with decentralized intelligence, automatic function self-test, emergency mode, storage of alarm and operating data, alarm display. Soft addressing and separate operational display is only possible when operating an esserbus / esserbus-PLus IQ8Quad detector without loop isolator, especially for usage in explosion zones. Operation with individual addressing at Ex-Barrier 804744 and as standard detector at Ex-Barrier 764744.

**Technical Data**

Quiescent current @ 19 V DC	ca. 40 $\mu$ A
Area to be monitored	max. 30 m <sup>2</sup>
Height to be monitored	max. 7.5 m
Ambient temperature (Ta)	-20 °C ... 50 °C
Detector specification	EN 54-5 A1R : 2002



Special marking for heat detector on light pipe: black ring

**Accessories**

805590 Standard detector base for IQ8Quad

803371.EX



IQ8Quad Optical Smoke Detector Ex (i)



VdS G 209224

Scattered-light smoke detector for reliable early recognition of fires. Intelligent fire detector with decentralized intelligence, automatic function self-test, emergency mode, storage of alarm and operating data, alarm display. Soft addressing and separate operational display is only possible when operating an esserbus / esserbus-PLus IQ8Quad detector without loop isolator, especially for usage in explosion zones. Operation with individual addressing at Ex-Barrier 804744 and as standard detector at Ex-Barrier 764744.

**Technical Data**

Quiescent current @ 19 V DC	approx. 50 $\mu$ A
Area to be monitored	max. 110m <sup>2</sup>
Height to be monitored	max. 12 m
Ambient temperature (Ta)	-20 °C ... 70 °C
Detector specification	EN 54-7 : 2006

**Accessories**

805590 Standard detector base for IQ8Quad

803374.EX

IQ8Quad O<sup>2</sup>T Intelligent Detector Ex (i)

VdS G 209225

Intelligent detector with two integrated optical smoke sensors with different scattered-light angles as well as additional heat detector sensor evaluation for the recognition of smouldering fires up to open fires with uniform characteristics. Comparison of the heat sensor signals for smoke classification and reduction of deceptive alarms, e.g. from steam or dust. Due to its excellent detection characteristics, the detector is also able to recognize TF1 and TF6 test fires, described in the standards. The O<sup>2</sup>T intelligent detector is also suitable for a higher operating temperature of up to +65 °C. Intelligent fire detector with decentralized intelligence, automatic function self-test, emergency mode, storage of alarm and operating data, alarm display. Soft addressing and separate operational display is only possible when operating an esserbus / esserbus-PLus IQ8Quad detector without loop isolator, especially for usage in explosion zones. Operation with individual addressing at Ex-Barrier 804744 and as standard detector at Ex-Barrier 764744.

#### Technical Data

Quiescent current @ 19 V DC	approx. 60 µA
Area to be monitored	max. 110 m <sup>2</sup>
Height to be monitored	max. 12 m
Ambient temperature (Ta)	-20 °C ... 65 °C
Detector specification	EN 54-7:2006 / -5B:2000 / A1:2002, CEA 4021

#### Accessories

805590 Standard detector base for IQ8Quad

## Ex-Accessories

804744

**IQ8Ex-Barrier for intrinsic safe detectors Series IQ8Quad Ex (i)****NEW**VdS **G 210047**

Design certificate BAS 00 ATEX 7087

Ex-Barrier for the operation of intrinsically safe IQ8Quad Ex (i) series detectors directly on the esserbus / esserbus PLus with individual addressing in connection with the Detector Base 805590.

**Technical Data**

Ambient temperature	-20 °C ... 60 °C
Type of protection	IP 20
Weight	approx. 100 g
Specification (CPD)	EN 54-18:2005
Dimensions	W: 20 mm H: 107 mm D: 115 mm

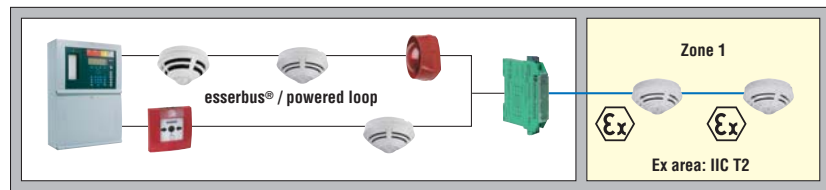


A safety barrier does not replace an overvoltage protection according to IEC 801, DIN VDE 0185 and 0855.

You can find more detailed information on the installation and the operation for IQ8Quad Ex (i) Series detectors in the documentation Part No. 798920.



Available for delivery from end of Q3/2010

**Individual addressable operating**

Ex-Barrier (Part No. 804744)

Application example

764744

**Ex-Barrier for intrinsic safe of detectors Series IQ8Quad and 9100**

Design certificate BAS 01 ATEX 7005

Ex-Barrier for the operation of intrinsically safe IQ8Quad Ex (i) series detectors in connection with the Detector Base 805590 as well as the 9100 Ex (i) series in connection with the Detector Base 781590.

**Technical Data**

Dimensions	W: 12.5 mm H: 115 mm D: 110 mm
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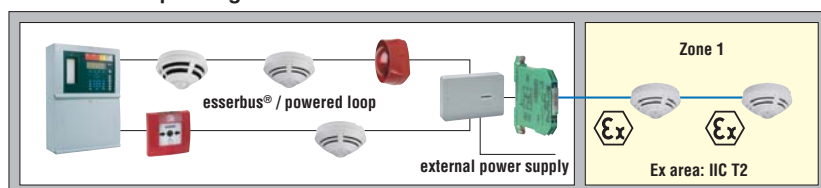
A safety barrier does not replace an overvoltage protection according to IEC 801, DIN VDE 0185 and 0855.

VdS approval is not required.

You can find more detailed information on the installation and the operation in the documentation

- Part No. 798920 for IQ8Quad Ex (i) Series detectors

- Part No. 798913 for 9100 Ex (i) Series detectors.

**Conventional operating**

Ex-Barrier (Part No. 764744)



esserbus transponder 4 zone / 2 relay

Application example

764745



## Isolation and assembly block for safety barrier



For insulated (earth-free) mounting of 764744 barriers onto standard C rail.

764752



## Housing for Ex-Barrier



Polyester-Housing for the installation of up to max. 10 ex barriers with integrated inside mounting rail. Also for operational application under extreme environmental conditions suitably.

**Technical Data**

Type of protection	IP 66/67
Housing	glass-fiber reinforced polyester
Color	grey, similar to RAL 7000
Dimensions	W: 255 mm H: 160 mm D: 250 mm



Mounting material

**Features**

- chemically resilient
- temperature resilient
- flame retardant
- noncorrosive
- sea water resistant
- nonhalogen, UV resistant

764754



## Threaded cable connection for housing 764752



Threaded cable connection for housing 764752.

**Technical Data**

Ambient temperature	-20 °C ... 95 °C
Type of protection	IP 66
Material	Polyamid
Color	blue, similar to RAL 9005



805551



Multi-stimulus detector tester



**Features**

- Generation of smoke, heat and CO in a single test unit
- Clearing cycle of the detector via integrated ventilator for better reset
- Simultaneous or sequential testing with various stimuli
- Suitable for single and multi-criteria detectors
- Suitable for smoke-, heat- and gas- (CO) detectors
- Targeted heat rays provide fast activation of heat sensors (up to 90°C/194°F, and/or adjustable up to 100°C/212°F)
- Test activation via infrared barrier, no mechanical triggering, no ceiling contact necessary
- Easy, fast and efficient testing, as changing of testing device is not necessary
- Multilingual and user-friendly menu control
- Battery operated portable device
- Environmentally friendly and safe through usage of test cartridges instead of test gas cans

Detector tester kit Testifire 2001 for the functional testing of point-type fire detectors with various sensors. The activating stimuli for smoke, heat and CO (carbon monoxide) are generated in this testing unit. Thus the changing of test tools for different types of detectors is no longer necessary.

All fire detector types can be tested with only one test instrument. The test tool is suitable for all optical smoke detectors, ionization detectors, CO detectors and heat detectors. It facilitates fast and effective testing of single and intelligent multi-sensor detectors. So testing of the different sensors can be carried out one after another or for all at the same time. The required stimuli are generated on demand at the time of test from the corresponding capsule (smoke or CO). Pressurized gas cans are no longer being used.

The selection of the testing stimuli, as well as their combination and sequence are menu driven via keypad and are represented on the display (multilingual). So e.g. simultaneous or sequential testing, or also a combination thereof, can be easily programmed and then carried out at the detector. The activation of the testing device occurs automatically, as soon as the detector interrupts the light barrier integrated in the device. If necessary, a clearing phase can be chosen between the respective testing criteria that enables the stimuli to be blown out of the detector immediately for the next test by the integrated ventilator. The respectively active criterion is represented by a multi-coloured LED indicator and is clearly recognizable even from large distances. The fill-level of the respective test resources capsules can be shown in the display. Warnings are indicated automatically e.g. if a capsule is nearly empty. The capsules offer a much higher test capacities in comparison with aerosol cans.

The power supply of the testing head occurs via Ni-MH batteries (metal hydride batteries) in the adapter between testing head and telescopic rod. Charging of the battery occurs with the charger optionally via adapter (100-230 V AC) or via 12 V DC input (vehicle cigarette lighter).

Suitable for IQ8Quad and 9x00 detector series.

**Technical Data**

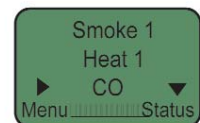
Heat detector response threshold	up to 90°C adjustable up to 100°C
Ambient temperature	+5°C to +45°C
Storage temperature	-10°C to +50°C
Relative humidity	max. 90 % (without formation of condensation)
Battery charging time	75-90 minutes



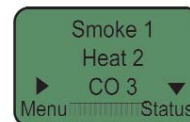
Detector tester kit Testifire 2001 consist of:  
Testing head, smoke capsule, CO capsule, 2 Ni-MH battery packs, charger



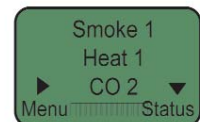
Example of testing with only one stimuli



Example of a simultaneous testing (smoke + heat at the same time)



Example of sequential testing (all criteria successively)



Example of combination of simultaneous and sequential testing)

Selection of different test criteria displayed

**Accessories**

- 805552 Smoke capsule for Multi-stimulus detector tester 805550/51
- 805553 CO capsule for Multi-stimulus detector tester 805551 (Testifire TC3)
- 060426 Plastic telescopic extension
- 060427 Plastic telescopic rod
- 060431 Spare battery baton

805550



Multi-stimulus detector tester TF1001

**NEW**

As 805551, but for functional testing of point-type fire detectors with smoke and heat sensors. The activation stimuli for smoke and heat are produced in this testing device.



Detector tester kit Testifire 1001 consist of:  
Testing head, smoke capsule, 2 Ni-MH battery packs, charger

**Accessories**

805552	Smoke capsule for Multi-stimulus detector tester 805550/51
060426	Plastic telescopic extension
060427	Plastic telescopic rod
060431	Spare battery baton

**Features**

- Generation of smoke and heat in a single test unit
- Clearing cycle of the detector via integrated ventilator for better reset
- Simultaneous or sequential testing with various stimuli
- Suitable for single and multi-criteria detectors
- Suitable for smoke- and heat-detectors
- Targeted heat rays provide fast activation of heat sensors (up to 90°C/194°F, and/or adjustable up to 100°C/212°F)
- Test activation via infrared barrier, no mechanical triggering, no ceiling contact necessary
- Easy, fast and efficient testing, as changing of testing device is not necessary
- Multilingual and user-friendly menu control
- Battery operated portable device
- Environmentally friendly and safe through usage of test cartridges instead of test gas cans

805552



Smoke capsule for Multi-stimulus detector tester 805550/51



Replacement smoke capsule (Testifire TS3) for the testing of smoke detectors series IQ8Quad and 9x00 with optical and/or ionisation sensors. Suitable for the multi-stimulus detector tester 805550/51.

**Features**

- Non-flammable, non toxic materials
- Production of test gas only during the testing
- Does not cause any residue in the sensor chamber
- Suitable for optical and ionization detectors
- No test gas storage under pressure – no dangerous good
- More productivity than the spray can

805553



CO capsule for Multi-stimulus detector tester 805551



Replacement CO capsule (Testfire TC3) for the testing of detectors with carbon monoxide sensors (CO). Especially suited for the IQ8Quad OTG Multisensor Detector 802473 (with CO sensor). Suitable for the multi-stimulus detector tester 805551.



The IQ8Quad OTG multisensor detector (CO) 802473 is generally tested either  
-with the test gas 060430.10, suitable for the smoke detector tester 805582, or  
-with 805552, suitable for the multi-stimulus detector tester 805551.

The 802473 is VdS-approved as a smoke detector, the CO test gas is required for the additional triggering of the electrochemical CO gas cell.

### Features

- Non-flammable CO activating-material
- Generation of small amounts of CO
- Generation of CO during testing only
- No storing of pressurized CO - no dangerous good
- More productivity than the spray can

## Surface mount housing - small design

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704980


**Surface mount housing for small MCP, red, similar to RAL 3020**


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Red, for manual call points 804970, 804971 and 804973, for small design Electronic Modules 804950/61, 804955/56. With integrated support for shielding.  
The surface mount housing serves as cable entry for surface mount cabling.

**Technical Data**

Dimensions (W x H x D)	88 x 88 x 36 mm
Colour	red, similar to RAL 3020



mounting material

704981


**Surface mount housing for small MCP, blue, similar to RAL 5015**


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Blue, for small design Electronic Modules 804950/61, 804955/56 with Housing 704951.  
With integrated support for shielding.  
The surface mount housing serves as cable entry for surface mount cabling.

**Technical Data**

Dimensions (W x H x D)	88 x 88 x 36 mm
Colour	blue, similar to RAL 5015



mounting material

704982


**Surface mount housing for small MCP, yellow, similar to RAL 1021**


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**NEW**

same as 704981, but yellow.

**Technical Data**

Colour	yellow, similar to RAL 1021
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mounting material

704983


**Surface mount housing for small MCP, orange, similar to RAL 2011**


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**NEW**

same as 704981, but orange.

**Technical Data**

Colour	orange, similar to RAL 2011
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Mounting material

704984



Surface mount housing for small MCP, green, similar to RAL 6002

**NEW**

same as 704981, but green.

**Technical Data**

Colour green, similar to RAL 6002



Mounting material

704985



Surface mount housing for small MCP, grey, similar to RAL 7035

**NEW**

same as 704981, but grey.

**Technical Data**

Colour grey, similar to RAL 7035



Mounting material

808623



**esserbus Alarm Transponder**



VdS **G 210020**

- Conventional connection of standard fire detectors and signaling devices
- Loop monitoring in compliance with EN 54-13
- Integrated line insulator
- Programmable relay outputs
- Programmable relay reset function

The esserbus Transponder functions as a device on the multifunctional primary line. The connection of automatic standard detectors, manual call points (non-addressable) as well as special detectors is possible. In addition, two programmable relay outputs are also available.

Monitoring via the EOL Terminating Devices (Part No. 808624/ 808626) is required for the connection of fire detectors and for the controlling of alarm signaling devices. The enclosed resistors can be used to connect the floating contacts.

The overall planning for the alarm signaling devices to be connected is carried out via a calculation tool which is a component of the tools 8000 programming software (Version V 1.15 and above).

The esserbus Alarm Transponder requires an external voltage supply. An optional Voltage Converter (Part No. 781336) is also required for 12V DC operation. The esserbus Alarm Transponder external voltage supply can be programmed and monitored during operation.

The EOL-I Terminating Device (Part No. 808626) is to be used for standard-compliant monitoring of detector zone inputs. The EOL-O (Part No. 808624) is to be used for standard-compliant monitoring of connected alarm signaling devices.

### Technical Data

Rated voltage	8 V DC, max. 42 V DC
Operating voltage	10 ... 28 V DC
Current consumption	max. 120 mA @ 12 V DC
Quiescent current @ 12 V DC	approx. 12 mA
Ambient temperature	-10 °C ... 50 °C
Storage temperature	-25 °C ... 75 °C
Type of protection	IP 40 (in housing)
Weight	approx. 28 g
Dimensions	W: 82 mm H: 72 mm D: 20 mm



Installation Accessory Pack

- 788603.10 Module housing for snap-on mounting rail
- 788600 Housing surface mount, grey
- 788650.10 Housing surface mount, white
- 788601 Housing flush mount, grey
- 788651.10 Housing flush mount, white
- 788612 Loop isolator for transponder
- 781336 DC/DC converter output voltage
- 808624 EOL-O Terminating Device
- 808626 EOL-I Terminating Device

808626



**EOL-I Terminating Device**

- Used for monitoring of detector zone inputs with standard fire detectors being connected
- Additionally recognizes creeping interruptions and short-circuits
- Loop monitoring in compliance with EN 54-13

The EOL-I Terminating Device is mounted on the last device in the detector zone and is used to monitor detector zone inputs.

808624



**EOL-O Terminating Device**

- Used for monitoring of control outputs with conventional alarm signaling devices being connected
- Additionally recognizes creeping interruptions and short-circuits
- Loop monitoring in compliance with EN 54-13

The EOL-O Terminating Device is mounted on the last control input device in the detector zone and is used to monitor alarm signaling devices.

**Titanus EB aspirating smoke detection**

**Features**

- Highest application flexibility through modular design
- Direct connection to the esserbus/esserbus-Plus (powered loop)
  - Easy commissioning through pre-set system configuration at delivery
  - Parameters for response sensitivity can be configured at the detector module
  - Up to 180m duct length per duct
  - Up to 24 suction vents
  - Two-detector dependency can be set up in compliance with VdS guidelines
  - Parallel detector indicator (part no 801824) can be connected

The Titanus EB aspirating smoke detection system is suitable for active early fire detection. Fires are detected via a modular detector module. Through HPLS technology (High-Power-Light-Source), the Titanus EB offers high detection quality as well as constant and reliable response features in case of fire.

On account of its modular design, the detector modules provide a high degree of flexibility in planning and installation for aspirating smoke detection systems.

Easy and cost-saving upgrades of already existing systems can be easily performed, since each Titanus EB system can integrate a maximum of two detector modules. By using only two detector modules, the detection area can be extended at a minimum expense.

Through physically separated detection chambers and independent evaluation of aerosols aspirated via air ducts, two-detector dependency can be set up in compliance with VdS regulations.

The detector modules for the Titanus EB System Pro Sens and Top Sens are available with three different sensitivity levels. Thus, various applications ranging from early fire detection purposes to earliest fire detection purposes with raised sensitivity levels can be tackled.

The Titanus Pro Sens EB is an aspirating smoke detection system suitable for universal application ranges with different requirements to detection sensitivity. The Titanus Top Sens EB aspirating smoke detection system is the expanded version and is provided with 3 alarm levels („info alarm“, pre-alarm“ and „main alarm“) as well as with integrated smoke level display (bargraph).



Application example

	801515.10	801521.10	801522.10	801531.10	801532.10
Manufacturer-configured for operation with one pipe	X	X		X	
Manufacturer-configured for operation with two pipes			X		X
"Info alarm" display at the unit and at the fire alarm panel				X	X
"Pre-alarm" display at the unit and at the fire alarm panel				X	X
"Fire alarm" display at the unit and at the fire alarm panel	X	X	X	X	X
"Fault" display at the unit and at the fire alarm panel	X	X	X	X	X
Bargraph				X	X
Plug-and-play commissioning	X				
Direct connection to the esserbus/powered loop	X	X	X	X	X
Operating temperature range from -10°C to +55°C	X	X	X	X	X

801515.10



**Compact unit Titanus Pro Sens EB**



**Approval:** VdS

**CPD-Number:** 0786-CPD-20791

Active system for the early detection of fires. It serves as room and furnishing protection and can be directly connected to the esserbus / powered loop. The compact aspirating smoke detection system Titanus Pro Sens EB is completely supplied with detector module DM-TP-50L. Plug & Play operation for fast and simple commissioning through pre-programmed standard functions and pre-configured detector modules.

### Features

- Fire and fault indication directly at the unit and at the fire alarm control panel
- Fast commissioning through automatic initialising process and plug & play operation
- Air flow monitoring for detecting pipe burst or tube blocking
- Protection against disturbances when implemented LOGIC SENS function is activated
- Integrated and pre-configured detector module (Part No. 801523.10)

### Technical Data

Operating voltage	14 to 30 V DC
Exhauster voltage	6.9 V or 9 V
Starting current @ 24V DC (w/o reset PCB)	300 mA
Quiescent current @ 24V DC (w/o reset PCB)	from 200 mA up to 275 mA
Alarm current @ 24V DC (w/o reset PCB)	from 210 mA up to 285 mA
Current consumption	of the reset PCB max. 20 mA
Switching capacity of alarm and trouble relay	30 V DC/1A max. 24 W
Dimensions (W x H x D)	200 x 292 x 113 mm
Weight	1.35 kg
Switching capacity level LWA as per EN 27779, 1991	approx. 45 dB(A) (with sound absorber Part No. 801543)
Type of protection	IP 20
Housing Material	ABS plastic
Housing colour	white, similar to RAL 9018
Ambient temperature	-20°C to +60°C
Storage temperature	-25°C to +65°C
Air humidity	max. 95% rel. humidity, w/o condensation
Exhauster design	radial
Exhauster life time (12V)	43,500 h at 24°C
LED-Display	
Alarm	red LED
Collective fault	yellow LED
Start	green LED
Connection terminal	max. 1.5 mm <sup>2</sup>
Connecting cable	(recommended) pair-wired, screened e.g. I-Y(St)Y n x 2 x 0.8 mm
Cable feedthrough	5 x M 20 / 2 x M 25
Beveled tubular plug	1 x for ABS tube D=25mm for return air duct D=25 mm



Isolator not included with delivery, can be optionally ordered under Part No. 788612.



Pre-configured Titanus Pro Sens EB basic device including esserbus transponder and reset PC board as well as the Titanus Pro Sens EB front foil and pre-configured detector module DM-TP-50L.



801521.10



Basic unit Titanus Pro Sens EB



### Features

- pre-configured for connecting a detector module DM-TP-xx
- optical status display for alarm and fault indication at the front foil
- extendable for integrating up to two detector modules DM-TP-xx to connect a second tube
- ports for two suction tubes with an outside diameter of 25mm
- port for air return tube

**Approval:** VdS

**CPD-Number:** 0786-CPD-20791

Basic unit for wall mounting, ready for receiving a detector module DM-TP-xx. The Titanus Pro Sens EB can be directly connected to the esserbus / powered loop. The device is supplied with front foil for single-tube operation.

### Technical Data

Operating voltage	14 to 30 V DC
Exhauster voltage	6.9 V or 9 V
Starting current @ 24V DC (w/o reset PCB)	300 mA
Quiescent current @ 24V DC (w/o reset PCB)	from 200 mA up to 275 mA
Alarm current @ 24V DC (w/o reset PCB)	from 210 mA up to 285 mA
Current consumption	of the reset PCB max. 20 mA
Switching capacity of alarm and trouble relay	30 V DC/1A max. 24 W
Dimensions (W x H x D)	200 x 292 x 113 mm
Weight	1.35 kg
Switching capacity level LWA as per EN 27779, 1991	approx. 45 dB(A) (with sound absorber Part No. 801543)
Type of protection	IP 20
Housing Material	ABS plastic
Housing colour	white, similar to RAL 9018
Ambient temperature	-20°C to +60°C
Storage temperature	-25°C to +65°C
Air humidity	max. 95% rel. humidity, w/o condensation
Exhauster design	radial
Exhauster life time (12V)	43,500 h at 24°C
LED-Display	
Alarm	red LED
Collective fault	yellow LED
Start	green LED
Connection terminal	max. 1.5mm <sup>2</sup>
Connecting cable	(recommended) pair-wired, screened e.g. I-Y(St)Y n x 2 x 0.8 mm
Cable feedthrough	5 x M 20 / 2 x M 25
Beveled tubular plug	1 x for ABS tube D=25 mm for return air duct D=25 mm



Isolator not included with delivery, can be optionally ordered under Part No. 788612.



Pre-configured basic device Titanus Pro Sens 1 EB including an esserbus transponder, a reset PCB and the front foil Titanus Pro Sens EB.

801522.10



Basic unit Titanus Pro Sens 2 EB



**Approval:** VdS

**CPD-Number:** 0786-CPD-20791

Basic unit for wall mounting, ready for receiving up to two detector modules DM-TP-xx. The Titanus Pro Sens 2 EB can be directly connected to the esserbus / powered loop. The device is supplied with front foil for two-tube operation.

### Features

- pre-configured for integrating up to two detector modules DM-TP-xx to connect two tubes
- optical status display for alarm and fault indication at the front foil
- ports for two suction tubes with an outside diameter of 25mm
- port for air return tube
- possible two-detection-dependency as per VdS directive

### Technical Data

Operating voltage	14 to 30 V DC
Exhauster voltage	6.9 V or 9 V
Starting current @ 24V DC (w/o reset PCB)	320 mA
Quiescent current @ 24V DC (w/o reset PCB)	from 220 mA up to 295 mA
Alarm current @ 24V DC (w/o reset PCB)	from 240 mA up to 315 mA
Current consumption	of the reset PCB max. 20 mA
Switching capacity of alarm and trouble relay	30 V DC/1A max. 24 W
Dimensions (W x H x D)	200 x 292 x 113 mm
Weight	1.35 kg
Switching capacity level LWA as per EN 27779, 1991	approx. 45 dB(A) (sound absorber Part No. 801543)
Type of protection	IP 20
Housing Material	ABS plastic
Housing colour	white, similar to RAL 9018
Ambient temperature	-20°C to +60°C
Storage temperature	-25°C to +65°C
Air humidity	max. 95% rel. humidity, w/o condensation
Exhauster design	radial
Exhauster life time (12V)	43,500 h at 24°C
LED-Display	
Alarm	red LED
Collective fault	yellow LED
Start	green LED
Connection terminal	max. 1.5 mm <sup>2</sup>
Connecting cable	(recommended) pair-wired, screened e.g. I-Y(St)Y n x 2 x 0.8 mm
Cable feedthrough	5 x M 20 / 2 x M 25
Beveled tubular plug	1 x for ABS tube D=25 mm for return air duct D=25 mm



Isolator not included with delivery, can be optionally ordered under Part No. 788612.



Pre-configured basic device Titanus Pro Sens 2 EB including an esserbus transponder, a reset PCB and the front foil Titanus Pro Sens 2 EB.

801531.10



**Basic unit Titanus Top Sens EB**



**Approval:** VdS

**CPD-Number:** 0786-CPD-20791

Basic unit for wall mounting, ready for receiving a detector module DM-TT-xx. It is provided with three alarm levels for information alarm, pre-alarm and main alarm as well as with a bargraph display to indicate the specific smoke density. The Titanus Pro Sens EB can be directly connected to the esserbus / powered loop. The device is supplied with front foil for single-tube operation.

### Features

- pre-configured for connecting a detector module DM-TT-xx
- optical status display for information alarm, pre-alarm, main alarm and fault indication at the front foil
- extendable for integrating up to two detector modules DM-TT-xx to connect a second tube
- integrated bargraph display to optically indicate the current smoke level
- ports for two suction tubes with an outside diameter of 25mm
- port for air return tube
- possible two-detection-dependency as per VdS directive

### Technical Data

Operating voltage	14 to 30 V DC
Exhauster voltage	6,9 V or 9 V
Starting current @ 24V DC (w/o reset PCB)	300 mA
Quiescent current @ 24V DC (w/o reset PCB)	200 mA to 260 mA
Alarm current @ 24V DC (w/o reset PCB)	230 mA to 290 mA
Current consumption	of the resre PCB max. 20 mA
Switching capacity of alarm and trouble relay	30 V DC/1 A max. 24 W
Dimensions (W x H x D)	200 x 292 x 113 mm
Weight	1,35 kg
Switching capacity level LWA as per EN 27779, 1991	ca. 45 dB(A) (with sound absorber Part No. 801543)
Type of protection	IP 20
Housing Material	ABS plastic
Housing colour	white, similar to RAL 9018
Ambient temperature	-20°C to +60°C
Storage temperature	-25°C to +65°C
Air humidity	max. 95% rel. humidity, w/o condensation
Exhauster life time (12V)	43.500 h at 24°C
LED-Display	
Alarm	2 red LED
Collective fault	yellow LED
Start	green LED
Connection terminal	max. 1,5 mm <sup>2</sup>
Connecting cable	(recommended) pair-wired, screened e.g. I-Y(St)Y n x 2 x 0,8 mm
Cable feedthrough	5 x M 20 / 2 x M 25
Beveled tubular plug	2 x for ABS tube D=25 mm for return air duct D=25 mm



Isolator not included with delivery, can be optionally ordered under Part No. 788612.



Pre-configured basic unit Titanus Top Sens EB including esserbus transponder, reset PCB and front foil Titanus Top Sens 1 EB.

801532.10



Basic unit Titanus Top Sens 2 without module



### Features

- pre-configured for usage with two DM-TT-xx detector modules
- optical status display for information alarm, pre-alarm, main alarm and fault indication
- integrated bar graph display to optically indicate the current smoke level
- ports for two suction tubes with an outside diameter of 25mm
- port for air return tube
- possible two-detection-dependency as per VdS directive

**Approval:** VdS

**CPD-Number:** 0786-CPD-20791

Basic device for wall mounting, pre-configured to receive up to two DM-TT-xx detector modules. The Titanus top Sens 2 EB is directly connectable to the esserbus/ esserbus-PLus. The device is shipped equipped with the front foil for the double tube operation.

### Technical Data

Operating voltage	14 to 30 V DC
Exhauster voltage	6,9 V or 9 V
Starting current @ 24V DC (w/o reset PCB)	300 mA
Quiescent current @ 24V DC (w/o reset PCB)	200 mA to 275 mA
Alarm current @ 24V DC (w/o reset PCB)	210 mA to 285 mA
Current consumption	of the reset PCB max. 20 mA
Switching capacity of alarm and trouble relay	30 V DC/1 A max. 24 W
Weight	1.35 kg
Switching capacity level LWA as per EN 27779, 1991	approx. 45 dB(A) (with sound absorber Part No. 801543)
Type of protection	IP 20
Housing Material	ABS plastic
Housing colour	white, similar to RAL 9018
Ambient temperature	-20°C to +60°C
Storage temperature	-25°C to +65°C
Air humidity	max. 95% rel. humidity (without condensation)
Exhauster design	radial
Exhauster life time (12V)	43.500 h at 24°C
LED-Display	
Alarm	red LED
Collective fault	yellow LED
Start	green LED
Connection terminal	max. 1,5 mm <sup>2</sup>
Connecting cable	(recommended) pair-wired, screened e.g. I-Y(St)Y n x 2 x 0.8 mm
Cable feedthrough	5 x M 20 / 2 x M 25
Beveled tubular plug	1 x for ABS tube D=25 mm for return air duct D=25 mm
Dimensions (W x H x D)	200 x 292 x 113 mm



Isolator not included with delivery, can be optionally ordered under Part No. 788612.



Pre-configured Titanus Top Sens 2 EB basic device contains 2 esserbus transponders, two reset PC boards and the Titanus Top Sens 2 EB front foil.

## Detector modul for Titanus Pro Sens EB aspirating smoke detection

801523.10



Detector module 0.5%/m Typ DM-TP-50L



### Features

- Response sensitivity adjustable at the module
- Fast commissioning through automatic initialising process
- Status display for status and fault diagnosis
- Installation into Titanus Pro Sens EB without tools
- Air flow monitoring for detecting pipe burst and tube blockage

Detector module for application in Titanus Pro Sens EB aspirating smoke detection systems (Part Nos. 801515.10, 801521.10, 801522.10) with a response sensitivity of 0.5% light opacity / m.

Early fire detection via HPLS technology. Installation into Titanus Pro Sens EB systems without tools and adjustable via DIL switch on the outside of the detector module. The parameterisation option allows sensitivity adjustments for the aspirating smoke detection system.

### Technical Data

Operating temperature	-20°C to +60°C
Weight	100g
Housing Material	ABS plastic

801524.10  **Detector module 0.10%/m DM-TP-10L**

As 801523.10 but with raised response sensitivity of 0.10% light opacity / m.

801525.10  **Detector module 0.015%/m DM-TP-01L**

As 801524.10 but with raised response sensitivity of 0.015% light opacity / m.

## Detector module for Titanus Top Sens EB aspirating smoke detection

801533.10  **Detector module 0.5%/m DM-TT-50L**

Detector module for application in Titanus Top Sens aspirating smoke detection systems (Part Nos. 801531.10, 801532.10) with a response sensitivity of 0.5% light opacity / m. Early fire detection via HPLS technology. Installation into Titanus Top Sens EB systems without using any tools and adjustable via DIL switch on the outside of the detector module. The parameter setting option allows sensitivity adjustments for the aspirating smoke detection system.

### Technical Data

Operating temperature	-20°C to +60°C
Weight	100g
Housing Material	ABS plastic

801534.10  **Detector module 0.10%/m DM-TT-10L**

As 801533.10 but with a raised response sensitivity of 0.10% light opacity / m.

801535.10  **Detector module 0.015%/m DM-TT-01L**

As 801534.10 but with a raised response sensitivity of 0.015% light opacity / m.

## Accessories

801540  **Device holder for aspirating smoke detection systems Titanus EB**

Device holder for mounting aspirating smoke detection systems to frames or for self-supporting mounting.



### Technical Data

Weight	1160g
Dimensions (L x W)	432 x 92mm

801541



**Reset PCB for Titanus EB**



PCB for resetting the Titanus Pro Sens EB and the Titanus Top Sens EB aspirating smoke detection system via the fire alarm control panel.

**Technical Data**

Current consumption	5 to 50mA
Dimensions (L x W)	57 x 45mm

801542



**Back-flow valve for Titanus EB**



Valve for cleaning the tubing system through air purging via compressed air. In systems with air purging, the non-return valve is mounted at the end of the tubing branch and prevents a build-up of dirt particles at the end of the tube.

801543



**Sound absorber for Titanus EB aspirating smoke detection systems**

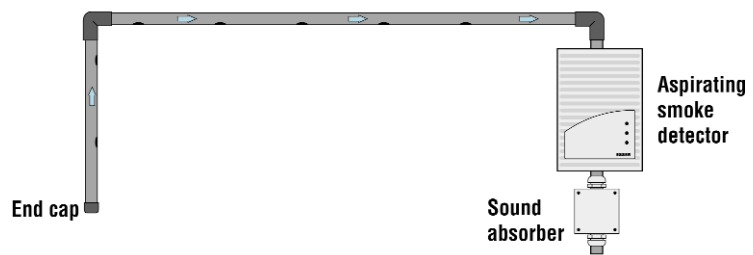


Sound absorber for reducing sound levels in Titanus EB aspirating smoke detection systems for sound-sensitive applications. The sound absorber is connected to the tube outlet and reduces the sound level during operation by up to 10 dB(A).

Installation either directly at the air release or with 10cm maximum distance from the air release.

**Technical Data**

Material	ABS plastic
Colour	RAL 7035
Weight	454g



Application example

801544



**Air filter for aspirating smoke detectors**



Air filter for usage in areas with interfering environmental influences e.g. dust.

**Technical Data**

Operating temperature	-30° C to +60° C
Material	ABS plastic
Colour	RAL 7035
Dimensions (W x H x D)	122 x 194 x 96 mm

including filter cartridges (1 x 60 ppi, 1 x 45 ppi and 1 x 25 ppi)

801604



**Replacement air filter pads for 801544**



Replacement cartridge for air filters (801544), consisting of one fine, medium and coarse filter pad each.

**Technische Daten**

Operating temperature -30° C to +70° C



1 Set



Filter cartridges (1 x 60 ppi, 1 x 45 ppi, 1 x 25 ppi)

801600



**Special filter**



Special filter for use in areas with extreme pollution.

**Technische Daten**

Length 418 mm

**Leistungsmerkmale**

- Filter cartridge filters particles up to a size of 7.5 µm
- Housing resistant to different organic and inorganic chemicals, fuels and hot water

801605



**Replacement filter element for 801600**

Replacement cartridge for special filters (801600).

**Technische Daten**

Operating temperature	-20° C bis +60° C
Pore width	7,5 µm
Material	Polypropylen
Dimensions (L x Ø)	254 x 64 mm

801547



**Front foil Titanus Pro Sens 2 EB**



Front foil for indicating alarms when using two detector modules

801548



Front foil Titanus Top Sens 2 EB



Front foil for indicating staged alarm modes and smoke density levels when using two detector modules.

801549



Diagnostics tool for Titanus EB



Diagnostics tool for Titanus EB aspirating smoke detector systems for reading the measurement data and device configurations as well as for localization of faults.



Diagnostics interface, connecting cable and diagnostic software

## Accessories for Aspiration Smoke System

761520



Pipe (PVC), diameter 25mm

Length = 5m



The price stated is the unit price for a 5m pipe. Temperature range: -40°C to +60°C.



on demand

761521



90° bend (PVC) for 25mm pipe





060865



Cross piece for 25mm pipe

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761522



90° angle (PVC) for 25mm pipe

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761523



45° angle (PVC) for 25mm pipe

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761524



T-Piece (PVC) for 25mm pipe

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761525



Sleeve (PVC) for 25mm pipe

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761526



End cap (PVC) for 25mm pipe



761527



Vent (PVC) for 25mm pipe



**Technical Data**

Outside diameter	36.0mm
Inner diameter	21.5mm

761528



Hose with textile insertion (PVC) for 25mm pipe

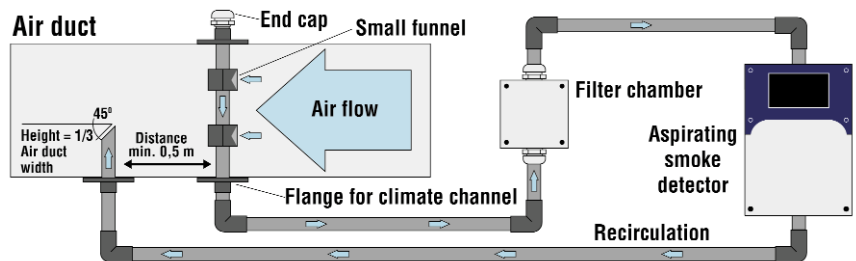


The price stated is price per metre.

761529



Flange for climate channel (PVC) for 25mm pipe



Monitoring of air duct

761531



Small funnel (polypropylen) for 25mm pipe



Application example, see drawing under Part No. 761529.

801601



**Condensate trap for aspirating smoke detectors**



Condensate trap with sintered metal filter for separation and absorption of condensed liquids, used for protecting aspirating smoke detectors including threaded cable connection and mounting bracket.

**Technische Daten**

Wight	1.432 g
Dimensions (W x H x D)	170 x 210 x 90 mm

801602



**Three-way ball valve**



For manual disconnection of aspirating smoke detectors from connected piping system during the blow cleaning process.

**Technische Daten**

Operating Temperature	-40° C to +50° C
Operating Pressure	max. 10 bar
Material	PVC
Composition	PTFE
Length	131 mm



includes three transition screw joints for connection to a 25 mm piping system

761535



**PVC adhesive, 0.5kg can**



Adhesive for connecting PVC pipes and fittings.

761536



**PVC detergente, 1l can**



Detergente for cleaning PVC pipes and fittings before glueing.

761537



**Mounting clip IKS for 25mm pipe**



704148



**IP67 cable gland M16 with nut**



Polyamid cable gland to increase the protection level.

**Technical Data**

Material	Polyamid
Color	blue

704147



**IP67 cable gland M12 with nut**



Polyamid cable gland to increase the protection level.

**Technical Data**

Material	Polyamid
Color	blue