SMM 535

Serial Master Module

As of production version 180619

Firmware versions:
- ASD 532   from 01.01.00
- ASD 535   from 01.04.00
- ADW 535   from 01.01.11

The SMM 535 is an additional module for networking special fire detectors ASD or ADW.

Fig. 1 SMM 535

Description

The SMM 535 is the master module for networking multiple ASD / ADW special fire detectors via RS485 bus. The SMM 535 is connected to a PC by means of a USB cable and constitutes the access point to the ASD network. The "ASD /ADW Config" configuration software serves as the user interface on the PC. The SMM 535 provides galvanic separation between the RS485 and USB interface.

Mounting / Installation

The SMM 535 is mounted at a central location where the operator of the system also has access. There are four holes in the map case of the SMM 535 for fastening.

On the exterior of the map case, the SMM 535 serial master module has a 3-pin plug-in terminal for connecting the network and a USB connector for connecting the PC. The SMM 535 is supplied with power via the USB interface from the PC. Three LEDs on the exterior of the map case indicate the state of the SMM 535.

Design of the network

An network can have up to 250 participants. The SIM 35 serial interface module is built into each ASD 535 as an interface module.

The normative alarm transmission of the special fire detectors to the higher level point does not use the network. The "Alarm" / "Fault" relays in the special fire detectors or SecuriLine (SLM 35) are used for that.
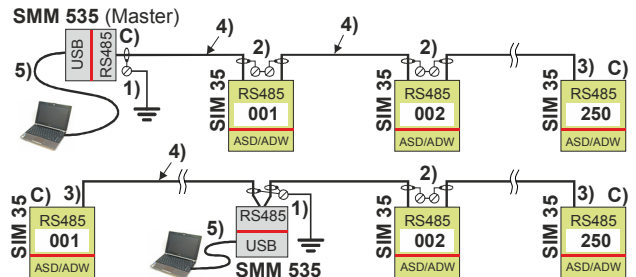

Fig. 2 Design of the network

1) Screen with equipotential bonding connected, always only on the SMM 535, do not connect on the last SIM 35; **3)**
2) Screen connected by means of a lustre terminal.
3) If SMM 535 is within the network, do not connect the screen on the first and last SIM 35 (beginning and end).
4) Network cable: 4-core, twisted / screened (only 3 wires are used, total length max. 1.000 m).
5) USB cable; max. 3 m in length.
C) There must be **bus termination** on both sides of the network (beginning and end); jumper "**TERM**", position "**C**".

Programming

Jumper **TERM**	Bus termination (position "C" = active)
Position **O**	SMM 535 is **not** first or last module
Position **C**	SMM 535 is **first** or **last** module

No network address has to be assigned to the SMM 535.
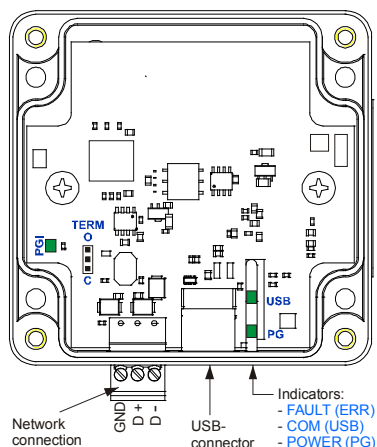
Data sheet

Fig. 3 View of SMM 535

Indicators

Three LEDs on the SMM 535 indicate the operating state. Two of these are supplied by fibre optic cable on the exterior of the map case (FAULT LED not present, optional).

LED outside	State / meaning
POWER (PG) (green)	**continuously lit**, power supply from PC (USB) OK
COM (USB) (green)	**flashes**, communication running, "ASD / ADW Config" is active

LED inside	State / meaning
PGI (green)	**continuously lit**, supply voltage OK (after galvanic separation)

Dimensioned drawing
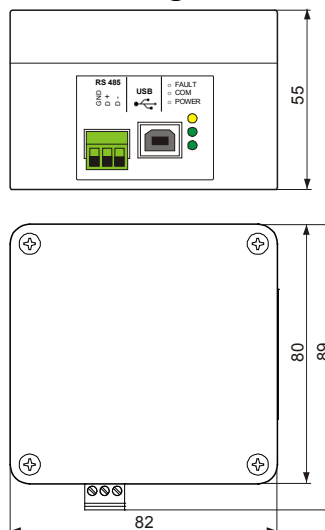
Fig. 4 SMM 535 dimensioned drawing

Terminal assignment

Terminal / signal	Installation	
GND	1st conductor from wire pair 2	
D +	1st conductor from wire pair 1	twisted
D –	2nd conductor from wire pair 1	

Termination of screening, see **Fig. 2**.

Article numbers and spare parts

Brief description		Article number
SMM 535		11-2200001-01-XX
Technical descriptions	ASD 532	T 140 421
	ASD 535	T 131 192
	ADW 535	T 140 358
Data sheets	ASD 532	T 140 422
	ASD 535	T 131 193
	ADW 535	T 140 359
	SIM 35	T 140 011

Technical data

Type		SMM 535	
Operating voltage from PC via USB connection		5	VDC
Power consumption from PC via USB connection		max. 100	mA
Ambient conditions acc. to IEC 60721-3-3 / EN 60721-3-3		3K5 / 3Z1	Class
Extended ambient conditions:			
• SMM 535 temperature range		–30 – +60	°C
• Max. permitted storage temperature (without condensation)		–30 – +70	°C
• Humidity ambient condition (transient without condensation / continuous)		95 / 70	% rel. hum.
Plug-in terminals		1.5	mm²
Cable type: 4-core, twisted in pairs, screened, impedance 120R		at least 0.2	mm²
maximum line length of the entire network		1,000	m
Dimensions (W x H x D)		82 x 89 x 55	mm
Weight		165	g

Change to Index « d » on page: 2