

# SIM 35

## Serial Interface Module

From production version 190615 and FW version 02.02.00

- Firmware versions:
- ASD 531/532 from 01.00.00
  - ASD 535 from 01.04.00
  - ADW 535 from 01.01.11

The SIM 35 is an additional module for networking ASD or ADW special fire detectors.



**Fig. 1 SIM 35**

## Description

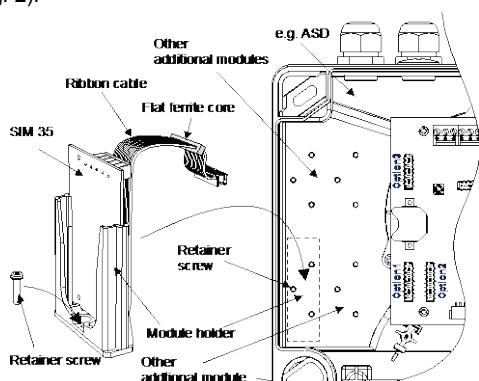
The SIM 35 serial interface module is for networking multiple ASD or ADW special fire detectors via RS485 bus. Using the "ASD / ADW Config" configuration software, all ASD or ADW units present in the network can be visualised and operated from a PC. The SIM 35 provides galvanic separation between the RS485 interface and the special fire detectors.

## Mounting / Installation

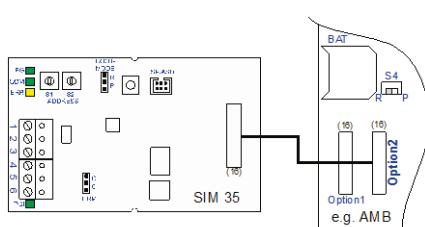
There are four expansion slots for mounting the optional additional modules in the detector housing of the ASD 535.

In the mounting set of the SIM 35 there are module holders, retainer screws and the connection cable for connecting to the AMB 35.

The SIM 35 interface module is connected by means of the 16-pin ribbon cable to connector **Option2** (or **Option1**). It must be ensured that the flat ferrite cores on the ribbon cable are on the AMB side (see Fig. 2).



**Fig. 2 Installation of the SIM 35**



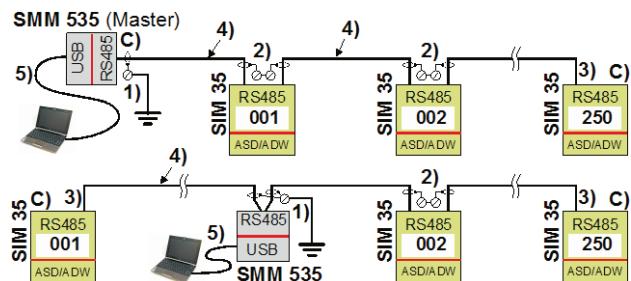
**Fig. 3 Connecting the SIM 35 in the ASD 535**

## Design of the network

An network can have up to 250 participants. The master module in the network is the SMM 535, by means of which a PC is connected.



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



**Fig. 4 Design of the ASD 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 in 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<br><b>TERM</b>      | Bus termination (position "C" = active)                      |
| Position <b>O</b>          | SIM 35 is <u>not</u> first or last module                    |
| Position <b>C</b>          | SIM 35 is <u>first</u> or <u>last</u> module                 |
| Jumper<br><b>BOOT MODE</b> | <b>FW upgrade (not equipped, needed only for production)</b> |
| Position <b>R</b>          | Normal position  |
| Position <b>P</b>          | Local FW upgrade on the SIM 35                               |
| <b>Button RESET</b>        | <b>SIM reset</b>   |
| Press                      | Triggers a HW reset of the SIM 35                            |

