

## Active Mini-Starcoupler

7XV5550

The Active Mini-Starcoupler with one optical input and four or five optical outputs allows the central or remote communication with devices with serial interfaces using different baud rates and data formats. Using a simple ASCII sequence only one of the available output channels is switched to a transparent full duplex operation. The active Mini-Starcoupler can be used with any terminal program or for SIPROTEC protection relays with the operating program DIGSI. Each of the input and output channels can be adapted independently to the device attached by adjustable baud rates and data formats. For communication with more than 5 devices the active Mini-Starcoupler can be operated together with a RS485 bus in the half-duplex mode.

### Features:

- One optical input and 4 optical outputs or one RS485 input and 5 optical outputs
- RS232 interface for local access
- RS485 interface for bus structure
- Baud rate and data format can be set independently for each channel
- Baud rate 1200 Bd - 115 kBd
- Data format 8N1, 8N2, 8E1
- Max. distance: 1.5 km with 62.5/125  $\mu\text{m}$  multimode fibre.
- Normal signal position selectable: Light ON / Light OFF
- Wide range power supply with self-monitoring function and alarm contact
- Operation compatible to 7XV5500



**Supply voltage:** DC 24 V to 250 V  $\pm 20\%$  and  
AC 60 V to 230 V  $\pm 20\%$  without change over

**LEDs:** 3 LEDs

- green: supply voltage healthy
- yellow: receiving data
- yellow: sending data

**Connectors:**

- Power supply: 2-pole Phoenix screw-type terminal
- FO connections: 820 nm ST plug connectors
- RS232: 9-pin Sub-D socket
- RS485: 2-pole Phoenix screw-type terminal
- Alarm output: 2-pole Phoenix screw-type terminal

**Controls:** 1 DIP switch for setting of FO signal position etc.

**Housing:** Plastic housing EG90, charcoal grey 90 x 75 x 105 mm (W x H x D) for snap mounting on to 35 mm DIN EN 50022 rail

## Applications

Using the integrated optical interfaces of the active Mini-Starcoupler the data transmission for four protection devices V1/2, SIPROTEC 3 or 4 can be performed with DIGSI connected centrally or remotely. When using the RS485 bus structure each active Mini-Starcoupler provides five optical outputs. For local operation with a notebook a RS232-interface is available. The control PC (directly or via modem) operates always with the same data format, while the interfaces to the different protection devices using other formats are adapted accordingly. For V1/2 protection relays an optical plug-in converter module 7XV5101 is required (fig. 1).

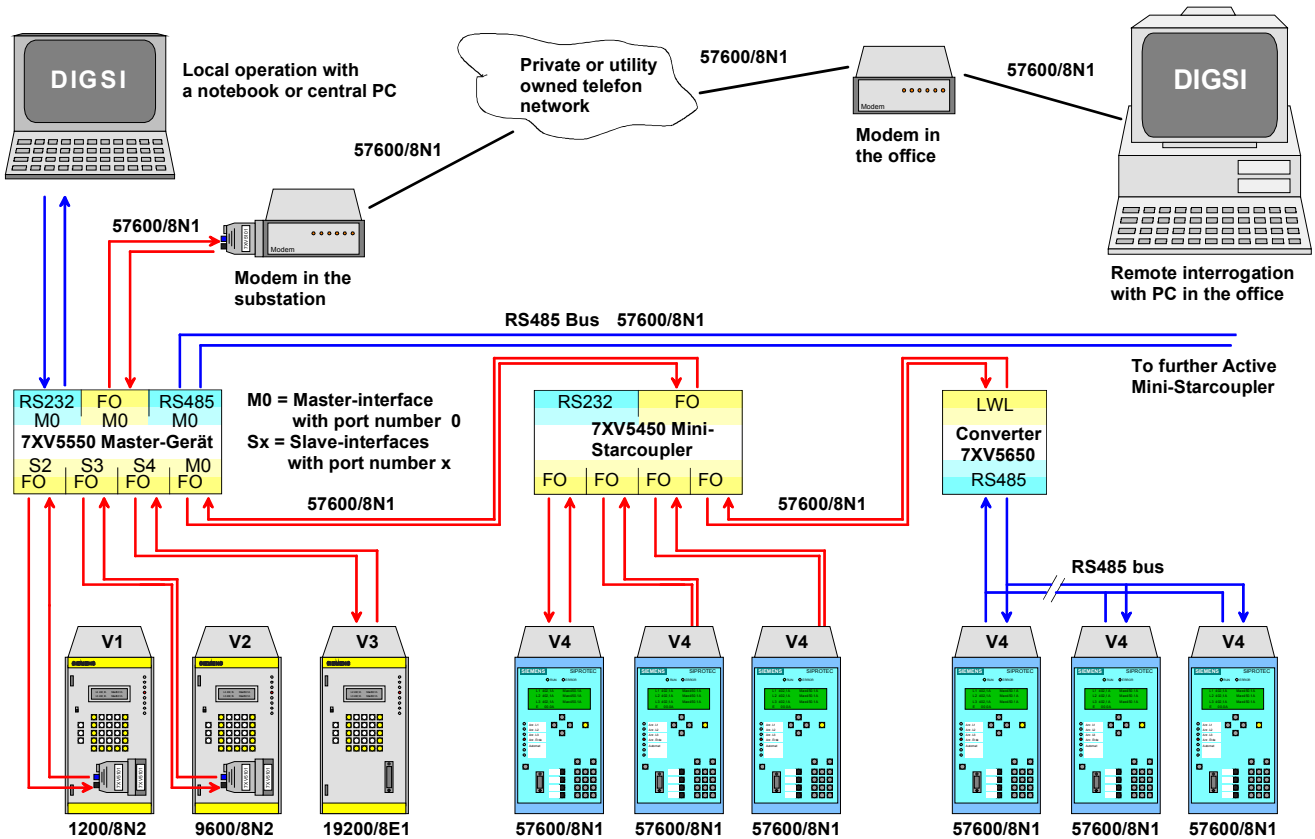


Fig. 1: Operation of different protection device generations

## Selection and Ordering Data

|  |  |
|--|--|
| Product Name   | Order No.:                                     |
| <b>Active Mini Starcoupler</b>   | 7 X V 5 5 0 - 0 <input type="checkbox"/> A 0 0 |
| Optical mini starcoupler with plastic housing for snap mount on 35 mm rail | <b>B</b>                                       |
| Auxiliary voltage DC 24-250 V DC and AC 110-220 V AC with alarm relay.     |  |
| Connection of up to 4 protection devices by 850 nm FOC                     |  |
| for 62.5/125 μm optical fibre with ST-connectors; max. distance 1.5 km     |  |
| Connection of PC, starcouplers, modem by 850 nm FOC                        |  |
| for 62.5/125 μm optical fibre with ST-connectors; max. distance 1.5 km     |  |
| or by 9-pin RS232 connector  |  |
| Cascadable   |  |
| FO connectors with ST plugs  |  |

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