

# Surge arrester module 422-SLAVE



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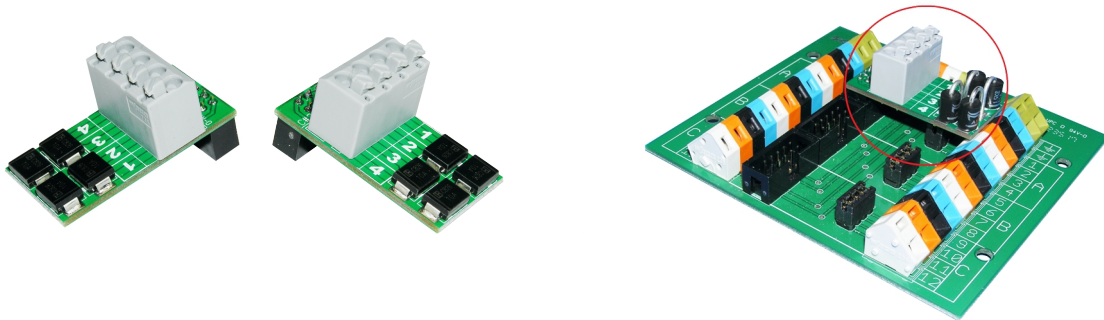
Products, data sheets, documentation, MR12-SCHEMA-calculator: [www.schneid.at](http://www.schneid.at)

## SCHNEID surge arrester module 422-SLAVE

for installation in the SCHNEID data socket

Order number: 020.15437

Order code: Überspannungs-Ableitermodul 422-SLAVE



### Overview:

The SCHNEID surge arrester module 422-SLAVE is plugged into the respective slot of the SCHNEID data socket. The arrester module protects the data interface of the control device against overvoltages as a result of indirect lightning strikes.

Please observe the connection instructions for SCHNEID data networks.

### Functions and difference to a standard discharge module:

The 422-SLAVE surge arrester module does not establish a connection to the "Controller" terminal block on the data socket connection board.

There are separate terminals on the module for connecting the data line.

This module is specially designed to transmit an additional bus system on a data cable.

When using this arrester, the systems cannot interfere with one another.

### Application example:

Outbuilding with sub-regulator.

FSS data communication with the PC is operated on segment A.

The sub-communication of the two controllers is connected on segment B or C.

The connection for the SubCOM is now on the arrester module.

If you were to use a "normal" discharge module, there would be a conflict between FSS and SubCOM.

### Scope of Delivery:

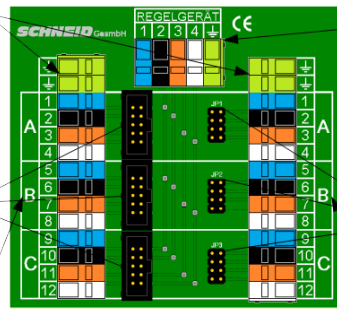
SCHNEID surge arrester module 422-SLAVE for installation in the SCHNEID data socket

# Surge arrester module 422-SLAVE

**Earth or shield clamp**  
The shield of the incoming and outgoing cable is connected to the earth or shield terminal. Furthermore, the house grounding (or the coiled tape at the entrance to the FW house) must be connected to these terminals. These are important requirements for protecting the system against indirect lightning strikes.

**Surge arrester module**  
The arrester module has additional arresters for overvoltages in the system. Only one module per clamping board may be used. The module can be plugged into three different slots. Depending on the selected slot, either line 1 (terminal 1,2,3,4), line 2 (terminal 5,6,7,8) or line 3 (terminal 9,10,11,12) is switched through to the controller.

Terminal box for a twelve-pin cable



**Outgoing terminal to the controller**  
The four-pin cable to the controller is connected here.  
Terminal PE (green) ---> controller terminal 25 ---> shield  
Terminal 1 (blue) ---> controller terminal 26 ---> TX+  
Terminal 2 (grey) ---> controller terminal 27 ---> TX-  
Terminal 3 (orange) ---> controller terminal 28 ---> RX+  
Terminal 4 (white) ---> controller terminal 29 ---> RX-  
!! The shield of the connection cable must be earthed on both sides !!

**Short circuit plug**  
Only if the respective short-circuit plug is plugged in, the individual wire strands strand 1 (1,2,3,4), strand 2 (5,6,7,8) and strand 3 (9,10,11,12) are connected from the incoming side to the forwarding side.  
To measure the cable during operation, the respective short-circuit plug must therefore be pulled at both cable ends.

**Incoming cable**  
The terminal board is designed for a twelve-pin cable. The incoming cable is the one that comes from the visualization computer.

Terminal assignment	PE shield/earth	in the example shown
1	TX+	line 1 active connected to the controller
2	TX-	line 1 active connected to the controller
3	RX+	line 1 active connected to the controller
4	RX-	line 1 active connected to the controller
5	TX+	line 2
6	TX-	line 2
7	RX+	line 2
8	RX-	line 2
9	TX+	line 3
10	TX-	line 3
11	RX+	line 3
12	RX-	line 3

**Advanced cable**  
The more extensive cable is the one that continues to the last control device. If branching is planned, the second additional cable must also be connected here.

Terminal assignment	PE shield/earth	in the example shown
1	TX+	line 1 switched through when short-circuit plug is attached
2	TX-	line 1 switched through when short-circuit plug is attached
3	RX+	line 1 switched through when short-circuit plug is attached
4	RX-	line 1 switched through when short-circuit plug is attached
5	TX+	line 2 switched through when short-circuit plug is attached
6	TX-	line 2 switched through when short-circuit plug is attached
7	RX+	line 2 switched through when short-circuit plug is attached
8	RX-	line 2 switched through when short-circuit plug is attached
9	TX+	line 3 switched through when short-circuit plug is attached
10	TX-	line 3 switched through when short-circuit plug is attached
11	RX+	line 3 switched through when short-circuit plug is attached
12	RX-	line 3 switched through when short-circuit plug is attached

## Technical specifications:

Intrastat Number	8537.10.91.99
Country of origin	EU/AT
Height, width, depth (in mm)	40x20x26mm
Weight (in kg)	0,009
Protection	IP-00
Ambient temperature	0°C....+40°C
Breakdown Voltage $V_{BR}$	9,5 – 10,5V
Maximum Clamping Voltage $V_C$	14,5V
Maximum Peak Pulse $I_{PPM}$	103A
Peak Pulse Power (10/1000µs)	1500W
Connection type	Socket for base module