

Data sheet:

# RS232 <> RS422/RS485 interface Industry with OVP



Article no.: 86203

**EUR 218.00**

\*Net price for commercial users

## With overvoltage protection - for more safety

The Interface connects devices equipped with an RS232 interface to RS422 or RS485 components. The built-in galvanic isolation ensures uninterrupted transmission in industrial environments.

## Properties

### Interfaces:

- **1x RS232 port**
  - 9-pin Sub-D plug with PC pin assignments
- **1x switchable RS422/RS485 port**
  - 9-pin Sub-D plug
  - Long-life electronics ensured by overvoltage-protected interface components
- **Galvanic isolation between the ports**
  - Isolation voltage 1kV DC

### Management and Connectivity:

- **No re-configuration of transmission parameters required**

### Power supply:

- **External**
  - 12V-24V AC/DC via plug-in screw terminal
  - Galvanically isolated power connection

### Standards & more

- **Conforms to standards both in office and industrial environments:**
  - High noise resistance per EN 61000-6-2
  - Low noise emission per EN 55032:2015 + A1 Cl. B, EN 61000-3-2 & EN 61000-3-3
- **5 year guarantee**



Wish for something!

[Your suggestions for improvement and additions](#)

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## Worth knowing

### Overvoltage protection for RS485 ports:

The maximum permissible differential voltage that can affect RS485 transceiver components from the outside is generally limited to values of around  $\pm 12..14V$ . Voltages that exceed these values will always result in damage to or even destruction of the interface components.

Shielded cables which run completely within a building should not generally see such high differential voltages, since

coupling onto the transmission line is manifested as common mode interference: The potential of all cable leads is increased equally. In such applications the [standard Interface Model 86201](#) can be used without any problems, since its galvanic isolation ensures that equal potential increases do not cause any damage.

When using the interface converter on transmission lines that run outside of buildings or when the cabling conditions are unclear, use of the 86203 Interface is advisable. This interface type features integrated overvoltage protection which limits the maximum occurring differential voltages to +/- 9V using fast protection diodes.

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## Run modes

### RS422 / RS485 interface:

- RS422 - Operation
- RS485 2- and 4-wire - Operation with automatic control of the transceivers
- RS485 2- and 4-wire - Operation with handshake control of the transceivers
- Switchable termination network for RS485 operation
- No setting of the transmission speed or data format necessary

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## Technical data

### Connections and displays:

Serial Port A:	RS232 Interface 9-pin SUB-D adapter, PC assignment
Serial Port B:	RS422 Interface 9-pin SUB-D adapter
Baud rate:	0 to 115.200 kBaud
Data format:	any format
Galvanic isolation:	min. 1kV DC between all terminals
Overvoltage protection:	Transil diodes for limiting the differential voltage
Supply voltage:	12..24V AC/DC (±10%)
Current consumption:	typ. 80mA @12V DC, 40mA @24V DC
Supply connection:	Plug-in screw terminal, 5.08mm spacing Labeled "L+" and "M"
Displays:	1 LED Power 1 LED Data

### Housing and other data:

Housing:	Plastic housing for top hat rail installation 105 x 22 x 75mm (L x W x H)
Weight:	approx. 100g
Ambient temperature:	Storage: -40 .. +70°C Operation: 0 .. +60°C
Permissible relative humidity:	5..95% RH (non-condensing)
MTBF:	656,551h @25°C per MIL-HDBK-217
Life expectancy:	> 25 years at 25°C ambient temperature
Scope of delivery:	Interface RS232 <-> RS422/RS485 Industry with OVP Please order power supplies separately as accessories

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## Accessories

\*Net unit price for commercial users

### Power supplies

Plug-in Power Supply, 24V / 750mA DC with Euro, US and UK plug	11026	38.00€	
Plug-in power supply, 24V / 500mA DC with Euro plug	11021	21.00€	

Power supply for DIN rail, 24V / 630mA DC (merchandise, 2-year manufacturer's guarantee)	11080	33.00€	
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#### Cable and Connector Accessories

RS232 PC/PC cable, DB9F x DB9F, 1.8m	11992	9.90€	
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DB9F connection cable with open cable ends, left angled, 1.5m	11902	17.50€	
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9-pol. SUB D socket with screwing terminal and shielded housing	11905	21.00€	
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#### Mechanical Accessories

Wall mount housing, enclosure rating IP66 / IP67	11120	54.00€	
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Mounting bracket for wall mounting	58812	11.20€	
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19" DIN rail	58813	21.00€	
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\* Our offering is intended only for commercial users. We will be happy to refer private end customers to trading partners through whom our products can be purchased.



#### We are available to you in person:

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