W&T connects

Interfaces for TCP/IP, Ethernet, RS-232, RS-485, USB, 20mA,
glass and plastic fiber optic cable, http, SNMP, OPC, Modbus TCP, I/O digital, I/O analog, ISA, PCI

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Data sheet:

RS422/RS485-Isolator Industry with overvoltage protection

Article no.: 66203

EUR 218.00

*Net price for
commercial users

Serial Isolator with overvoltage protection

The model 66203 Isolator with integrated overvoltage protection enables galvanically isolated connection between RS422 devices and RS485 bus systems.

Properties

Interfaces:

- **2x RS422/RS485**
  - 9-pin Sub-D connector
- **Galvanic isolation between the ports**
  - Isolation voltage 1kV DC

Management and Connectivity:

- **Automatic control in RS485 operation**
- **No re-configuration of transmission parameters required**
- **High transmission speeds of up to 3 Mbaud**

Power supply:

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

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

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 ± 12..14V. Voltages that exceed these values will always result in destruction of the interface components.

When using shielded cable, it is unlikely that such high differential voltages will occur, since extreme coupling onto the

transmission line expresses itself as a rise in potential on all cable conductors.

When using the isolator on transmission lines outside of buildings or when the cabling conditions are unclear, use of the 66203 Isolator is recommended. This isolator model has built-in overvoltage protection, which limits the maximum occurring differential voltages to a harmless ±9V using fast protection diodes.

Technical data

Connections and displays:

Serial ports:	RS422/RS485 interfaces, selectable 9-pin SUB-D adapter
Operating modes:	RS422 RS485 4-wire with automatic control RS485 2-wire with automatic control
Switching time:	Settable 10µs / 50µs for switching from data sending to receiving for RS485 automatic control (can be changed on request)
Termination:	Connectable termination network for RS485 operation
Overvoltage protection:	Differential voltage limited by Transil diodes
Baud rate:	0..3 Mbaud
Data format:	any format
Galvanic isolation:	min. 1kV DC between all terminals
Supported signals:	RxD, TxD, CTS, DTR
Supply voltage:	12..24V AC/DC (±10%)
Current consumption:	typ. 70mA @12V DC, 35mA @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 Operating in non-rowed installation: 0..+60°C Operating in rowed installation 0..+50°C
Permissible relative humidity:	5..95% RH (non-condensing)
MTBF:	482,916h @25°C per MIL-HDBK-217
Life expectancy:	> 25 years at 25°C ambient temperature
Scope of delivery:	RS422/RS485 isolator, Industry Please order power supplies separately as accessories

Accessories

*Net unit price for commercial users

Power supplies

Plug-in power supply, 24V / 500mA DC with Euro plug	11021	21.00€
Plug-in Power Supply, 24V / 750mA DC with Euro, US and UK plug	11026	38.00€
Power supply for DIN rail, 24V / 630mA DC (merchandise, 2-year manufacturer's guarantee)	11080	33.00€

Cable and Connector Accessories

DB9F connection cable with open cable ends, left angled, 1.5m	11902	17.50€
DB9F connection cable with open cable ends, right angled, 1.5m	11903	17.50€
9-pol. SUB D socket with screwing terminal and shielded housing	11905	21.00€

Mechanical Accessories

Wall mount housing, enclosure rating IP66 / IP67	11120	54.00€	🛒
Mounting bracket for wall mounting	58812	11.20€	🛒
19" DIN rail	58813	21.00€	🛒

* 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.

Data Privacy