Item no.: 384717

MGATE 4101-MB-PBS - 1-port Modbus RTU/ASCII-to-PROFIBUS slave gateways

from **529,58 EUR**

Item no.: 384717
shipping weight: 0.50 kg
Manufacturer: MOXA

📄 Product Description

The MGate 4101-MB-PBS gateway provides a communication portal between PROFIBUS PLCs (e.g. Siemens S7-400 and S7-300 PLCs) and Modbus devices. With the QuickLink function, I/O mapping can be carried out within a few minutes. All models are protected by a robust metal housing, can be mounted on a DIN rail and offer optional integrated optical isolation.QuickLink and Windows utilities for easy setup and traffic monitoringThe QuickLink Windows utility uses a serial console port to connect to the MGate 4101-MB-PBS, making configuration and operation as simple as possible. QuickLink can complete configuration in just minutes by passively recognising Modbus requests with the AutoLearning function and error-free I/O mapping with the AutoMapping function. QuickLink drastically reduces the time for Modbus-to-PROFIBUS integration compared to traditional I/O mapping, which can easily take days. In addition, embedded monitoring tools can keep logs of Modbus communication packets and help with troubleshooting.Redundant current inputsThe MGate 4101-MB-PBS has two current inputs for increased reliability. The power inputs allow simultaneous connection to 2 live DC power sources, ensuring continuous operation even if one power source fails. The increased reliability makes these advanced Modbus-to-PROFIBUS gateways ideal for demanding industrial applications.Relay output warningA relay output is provided for the status of the current input. The relay output provides maintenance technicians with an additional tool for troubleshooting and maintenance.Serial interface- Console connection: RS-232 (TxD, RxD, GND), 8-pin RJ45 (115200, n, 8, 1)- Number of ports: 1- Connection: DB9 connector- Serial standards: RS-232/422/485- Baud rate: 50 bps to 921.6 kbps- Data bits: 7, 8- Parity: None, Even, Odd, Space, Mark- Stop bits: 1, 2- Flow control: DTR/DSR, RTS/CTS- RS-485 data direction control: ADDC® (automatic data direction control)- Pull high/low resistor for RS-485: 1 kilo-ohm, 150 kilo-ohm- Terminating resistor for RS-485: 120 ohms- Isolation: 2 kV (I models)Serial signals- RS-232: TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND- RS-422: Tx+, Tx-, Rx+, Rx-, GND- RS-485-2w: Data+, Data-, GND- RS-485-4w: Tx+, Tx-, Rx+, Rx-, GNDSerial software functions- Configuration options: MGate Manager- Industrial protocols: Modbus RTU/ASCII Master, Modbus RTU/ASCII Slave, PROFIBUS DP-V0 SlaveModbus RTU/ASCII- Mode: Master, Slave- Supported functions: 1, 2, 3, 4, 5, 6, 15, 16, 23- Max. Number of commands: 100- Input data size: 7744 bytes- Output data size: 7744 bytesPROFIBUS interface- Industrial protocols: PROFIBUS DP- Number of ports: 1- Connector: DB9 socket- Baud rate: 9600 bps to 12 Mbps- Isolation: 2 kV (built-in)- Signals: PROFIBUS D+, PROFIBUS D-, RTS, Signal Common, 5VPROFIBUS- Rotary switch: PROFIBUS addresses 0-99 (addresses 100-125 are supported by software configuration)- Mode: DP-V0 Slave- Max. Max. number of master connections: 1- Max. Max. number of PROFIBUS I/O modules: 24 per page- Max. Max. number of PROFIBUS pages: 32- Input data size: 7744 bytes- Output data size: 7744 bytesPower parameters- Input voltage: 12 to 48 VDC- Input current: 275 mA @ 12 VDC- Power connection: Screwable Euroblock terminalRelay- Current carrying capacity of contacts: Resistive load: 1 A @ 24 VDCPhysical properties- Housing: Metal- Dimensions: 36 x 105 x 140 mm (1.42 x 4.14 x 5.51 in)- Weight: 500 g (1.10 lb)- IP rating: IP30Note: It is recommended to fix the M3x3mm Nylok screws at the rearEnvironmental limits- Operating temperature: 0 to 60°C (32 to 140°F)- Storage temperature (including packaging): -40 to 85°C (-40 to 185°F)- Ambient relative humidity: 5 to 95% (non-condensing)Standards and certifications- Safety: EN 60950-1, UL 60950-1, EN 62368-1, UL 62368-1- EMC: EN 55032/35- EMI: CISPR 32, FCC Part 15B Class A- Hazardous areas: ATEX, Class I Division 2, IECEx- Free fall: IEC 60068-2-32- Shock: IEC 60068-2-27- Vibration: IEC 60068-2-6, IEC 60068-2-64EMS- IEC 61000-4-2 ESD: Contact: 6 kV; Air: 8 kV- IEC 61000-4-3 RS: 80 MHz to 1 GHz: 3 V/m- IEC 61000-4-4 EFT: Power: 2 kV; Signal: 1 kV- IEC 61000-4-5 Surge: Power: 2 kV; Signal: 2 kV- IEC 61000-4-6 CS: 150 kHz to 80 MHz: 10 V/m; Signal: 10 V/m- IEC 61000-4-8 PFMFMTBF- Time: 1.537,948 hours- Standards: Telcordia SR332

📄 Specifications