



EP6002-0002 | 2-channel serial interface, RS232, RS422/RS485

The EP6002 serial interface module allows the connection of devices with an RS232 or RS422/RS485 interface. The module transmits the data in a fully transparent manner to the higher-level automation device. The data is transferred via the fieldbus using a simple handshake protocol. This does not have any effect on the protocol of the serial interface. The active serial communication channel functions independently of the higher-level bus system in full duplex mode at up to 115,200 baud, while a 864 byte receive buffer and a 128 byte send buffer are available.

The connector assignment depends on the interface. For each channel, RS232 or RS422/RS485 can be selected.

In conjunction with the TwinCAT Virtual Serial COM Driver (see TwinCAT Supplements – Communication) the EP6002 can be used as a normal Windows COM interface.

Technical data	EP6002-0002
Data transfer channels	2
Data transfer rates	300...115,200 baud; 9600 baud (8 bit, no parity, 1 stop bit) is preset
Number of digital inputs/outputs	–
Connection method	M12, screw type
Nominal voltage	24 V DC (-15 %/+20 %)
Distributed clocks	–
Bit distortion	< 3 %
Cable length	RS232: max. 15 m; RS422/RS485: approx. 1000 m
Data buffer	864 bytes receive buffer, 128 bytes transmit buffer
Sensor supply	+5 V DC, 20 mA each, electrically isolated
Current consumption from Us	typ. 130 mA + sensor supply
Power supply connection	feed: 1 x M8 male socket, 4-pin; downstream connection: 1 x M8 female socket, 4-pin
Bit width in the process image	per channel: 22 x 8 bit input, 22 x 8 bit output, 16 bit control, 16 bit status
Electrical isolation	500 V
Special features	easy integration of serial end devices
Weight	approx. 165 g
Operating/storage temperature	-25...+60 °C/-40...+85 °C
Vibration/shock resistance	conforms to EN 60068-2-6/EN 60068-2-27
EMC immunity/emission	conforms to EN 61000-6-2/EN 61000-6-4
Protect. class/installation pos.	IP 65/66/67 (conforms to EN 60529)/variable
Approvals	CE, UL, Ex

Accessories	
TS6340	IEC 61131-3 software library for TwinCAT PLC for communication via serial devices
TS6360	license for using the TwinCAT Virtual Serial COM Driver for Windows and Windows CE platforms
ZK1090-3xxx-xxxx	Cables for EtherCAT signal in- and -output
ZK2000-5xxx/71xx-xxxx	Sensor cable 5-wire unshielded/shielded
ZK2020-3xxx-xxxx	Cables for M8 power supply