



ER6002-0002 | 2-channel serial interface, RS232, RS422/RS485

The ER6002 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 ER6002 can be used as a normal Windows COM interface.

The EtherCAT Box modules with zinc die-cast housing are ready for use in harsh industrial and process environments. With the fully sealed design and metal surfaces the ER series is ideal for applications requiring enhanced load capacity and protection against weld spatter, for example.

Technical data	EP6002-0002
Data transfer channels	2
Data transfer rates	300...115,200 baud; 9,600 baud (8 bits, no parity, 1stop 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. 1,000 m
Data buffer	864 bytes receive buffer, 128 bytes transmit buffer
Sensor supply	+5 V DC, 20 mA each
Current consumption from Us (without sensor current)	typ. 130 mA + load
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
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 in preparation

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

Related products

EP6002

2-channel EtherCAT Box (industrial housing), serial interface RS232, RS422/RS485