Interface converter
RS422/485 <> RS232

Description

The tecsis interface model EZE20X100001 permits
bi-directional connection of RS232 devices with components, which are equipped with an RS422 or RS485 port.

The interfaces convert one data line and one handshaking line in each direction and provide electrical isolation between the RS232 side and the RS422/RS485 side. The interfaces are built in a small plastic housing designed for top hat rail mounting according to DIN EN 50022-35.

Both interfaces use a build-in switching regulator for power supply and have a wide input voltage range from 12V to 24V. The operating voltage can be supplied by the enclosed AC adaptor or by any other AC or DC voltage in the permissible range. The interfaces have a build-in reverse voltage protection. The power can be supplied by screwed contacts.

The interface includes two LEDs, with green for indicating the correct supply voltage and red for verifying data transmission in both directions.

Features

- Conversion from RS-232 to RS-422/485 up to 115 K-baud
- RS485 automatic mode
- 2 and 4 wire compatible
- 2 LED for power supply and data traffic
- No re-configuration of transmission parameters required
- Min. 1 kV electrical isolation
- With integrated overvoltage protection
- Phoenix-case for direct installation on the C-bar
- Top hat rail housing acc. to DIN EN 50022-35
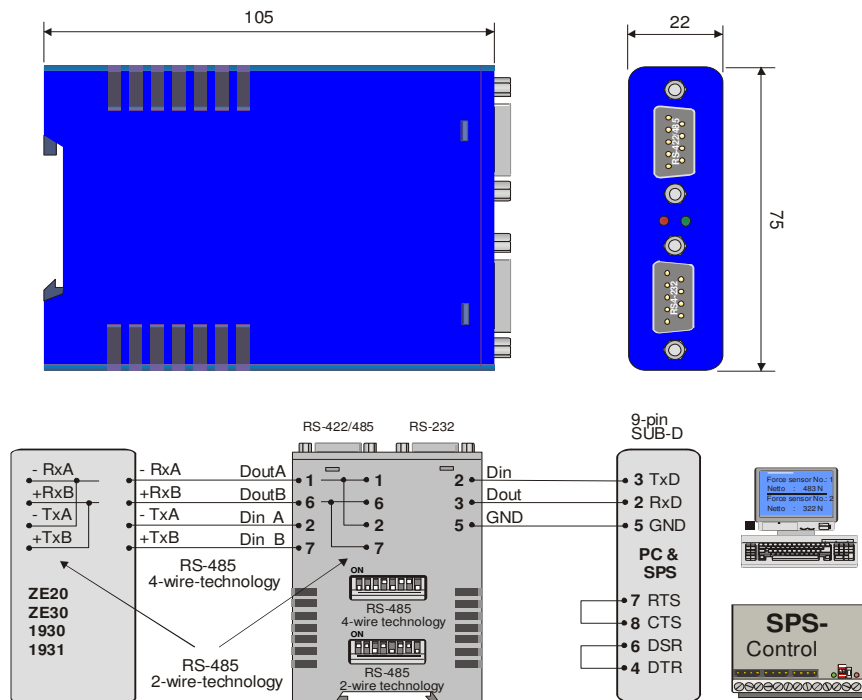- Supply voltage range up to 24V

Applications

- Universal
- Fail-safe interface-converter for industrial applications for top hat rail mounting

Model : E20X100001

Technical data

Model	EZE20X100001
Baud rate	0…115.200 baud
Data format	Any format
Signal lines	RxD A/B, TxD A/B, CTS A/B, DTR A/B
Operating modes	RS422 RS485 2/4 wire handshake control RS485 2/4 wire automatic control
Termination	connectable termination network for RS485 operation
Isolation	min. 1 kV
Power supply	supplied power adapter or 12..24 V DC/AC
RS-232-adapter	9-pin SUB-D adapter, PC assignment
RS-422/485-adapter	9-pin SUB-D adapter
Display elements (LED)	green = power supply ok; red = data transfer in both directions
Case/Dimension	plastic-case for mounting rail acc. DIN EN 50022-35 / 105 x 75 x 22 mm
Protection type (acc. to EN 60529/IEC 529)	IP 54
Storage temperature	-40°C up to 70 °C
Operating temperature	0° up to 60°C with external power supply 24 VDC

Dimension

Setting the operating modes

To configure the RS485 / RS422 Interfaces, the enclosure must be opened to set the mode type/termination DIL switches on the interface module. For this purpose we recommend threading a SUB-D connector with connector body onto the Interface and use the threaded-on connector to assist in removing the housing cover from the housing body.

Termination

For all RS485 operating modes it is essential that the bus system be terminated with a termination network which assures a defined rest state in the high-impedance phases of bus operation.
The bus system can be connected to a termination network by closing switches #6 and #7 on the interface module.