Interface converter DI-2USB

Interface converter USB to RS-485

Interface converter DI-2USB

Device features

- Plastic enclosure
- Electrical separation between the input and output circuit
- Power supply via USB port
- USB cable and driver CD -CD included in the scope of delivery

Product description

The DI-2USB interface converter is designed for connecting PCs and work stations via the USB interface to Bender devices utilising an RS-485 interface. The hardware and software of the computers need not to be changed. A personal computer can be connected to a BMS network via the DI-2USB converter, for example.

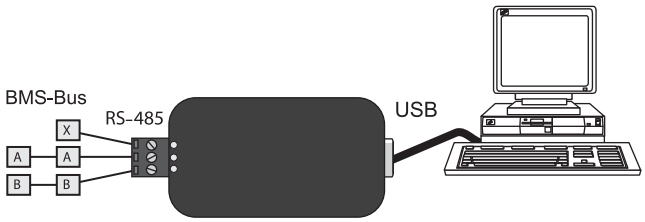
Application

- Conversion of USB interface into RS-485 interface
- Parameterisation of alarm indicator and operator panels (MK800, MK2430) utilising an RS-485 interface via PC utilising a USB interface by means of software

Function

Many PCs and work stations are equipped with USB interfaces. The DI-2USB interface converter is designed to connect these devices via a USB interface to the BMS bus using the RS-485 standard. The connected devices are protected against spikes by galvanic separation between the input and output circuit. Additional internal measures protect the device against voltage spikes. Driver for Windows 98, ME, 2000, XP, Linux (Kernel 2.4.18 and higher).

Wiring diagram (example)



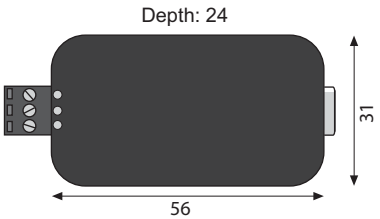
DI-2USB for the integration of a personal computer utilising a USB interface into a BMS network.

Note:

- BMS bus termination is required

Dimension diagram DI-2

Dimensions in mm



Ordering information

Type	Supply voltage	Art. No.
DI-2USB	supplied by USB port, no additional power supply required	B 9501 2045

*Absolute value

Technical data

Insulation coordination acc. to IEC 60664-1

Rated voltage	
Rated impulse voltage/pollution degree	3 kV / 3

Supply voltage

Supply voltage U_S	see ordering information
Power consumption	95 mVA

Interfaces

BMS

Interface / protocol	1 x RS-485 / --
Baud rate	9.6…115.2 kbit / s
Cable length	≤ 1200 m
Recommended cable (shielded, shield connected to PE on one side)	min. J-Y(St)Y 2x0.6
Mode	--
Connection	A, B
Integrated terminating resistors, selectable via jumper, factory setting	terminating resistors included
Device address, BMS bus	--
Serial interface	1 x USB
Indication LEDs	ON (yellow) Data (green), T x Data (red)

General data

EMC immunity / EMC emission	EN 61000-6-2 / EN 61000-6-4
Classification of climatic conditions acc. to IEC 60721	
Stationary use / transport / long-time storage	3K5 / 2K3 / 1K4
Ambient temperature, operation	- 10 °C…+ 55 °C
Classification of mechanical conditions acc. to IEC 60721	
Stationary use / Transport / Long-time storage	3M4 / 2M2 / 1M3
Operating mode	continuous operation
Mounting	any position
Connection	screw-type terminals/USB plug Type B
Connection rigid /f lexible / conductor sizes	0.5…2.5 mm² / AWG 22…12
Screw mounting	2 x M3
DIN rail mounting acc. to	IEC 60715
Operating manual	manual of third-party manufacturer
Weight	≤ 25 g

1.8.2