

DI-2USB

Interface converter USB to RS-485





Interface converter DI-2USB

Device features

- Plastic enclosure
- Galvanic separation between the input and output circuit
- Power supply via USB port
- USB cable and driver 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. The hardware and software of the computers do not need to be changed. A personal computer can be connected to a BMS network via the DI-2USB converter, for example.

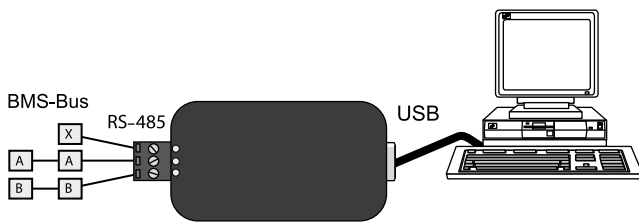
Application

- Conversion of USB interface into RS-485 interface
- Parameterisation of alarm indicator and operator panels (MK800, MK2430) via RS-485 interface by means of software
- Parameterisation of Modbus RTU devices via RS-485 interface by means of software

Functional description

Many PCs and work stations are equipped with serial USB interfaces. The DI-2USB interface converter is designed to connect these devices via a USB interface to the BMS bus. In addition, BMS bus and Modbus RTU devices can be evaluated or parameterised. The connected devices are protected against spikes by galvanic separation between the input and output circuit (DC 3000 V). Additional internal measures protect the device against voltage spikes.

Wiring diagram (example BMS)



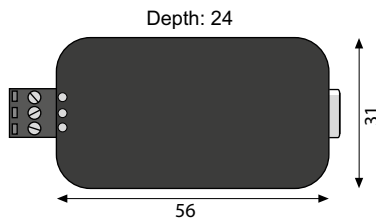
DI-2USB to connect a personal computer utilising a USB interface to a BMS network.

Note:

- Consider BMS bus termination

Dimension diagram

Dimensions in mm



Ordering details

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

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 details
Power consumption	95 mVA

Interfaces

RS-485

Interface/protocol	1 x RS-485/-
Baud rate	9.6...115.2 kbit/s
Cable length	≤ 1200 m
Cable (twisted in pairs, one end of shield connected to PE)	recommended: J-Y(St)Y min. 2x0.8
Mode	-
Connection	A, B
Integrated terminating resistors, selectable via jumper, factory setting	terminating resistors included
Device address	-

USB

Serial interface	1 x USB
Alarm LEDs	ON (yellow), R x Data (green), T x Data (red)

Environment/EMC

EMC immunity/EMC emission	EN 61000-6-2/EN 61000-6-4
Classification of climatic conditions acc. to IEC 60721	
Stationary use	3K5
Transport	2K3
Long-term storage	1K4
Operating temperature	-10...+55 °C
Classification of mechanical conditions acc. to IEC 60721	
Stationary use	3M4
Transport	2M2
Long-term storage	1M3

Connection

Connection	screw-type terminals/USB plug type B
Connection properties	
rigid/flexible/conductor sizes	0.5...2.5 mm ² (AWG 22...12)

Other

Operating mode	continuous operation
Mounting	any position
Screw mounting	2 x M3
DIN rail mounting acc. to	IEC 60715
Operating manual	manual of third-party manufacturer
Documentation number	D00103
Weight	≤ 25 g



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