



In the Ex e version, the MODEX 8 x 4 to 20 mA module with 8 analogue inputs enables 8 analogue signals to be fed in. For example, two-wire transmitters can be imported as signals. The input signal has 12-bit resolution and is transmitted with high interference resistance. The module is connected to the process control system via the PROFIBUS-DP. Coding rotary switches are available for addressing the module. Diagnostics data indicating the status of the outputs with respect to a disconnection or short-circuit can also be transmitted in addition to the user data. This is also displayed on the module itself using LEDs.

Explosion protection

Marking ATEX	II 2(1)G Ex db e IIC Gb I M2 Ex db e I Mb
Certification	PTB 97 ATEX 1066 U
Marking IECEx	Ex db e IIC Gb Ex db e I Mb
Certification	IECEx PTB 11.0082U
Marking CSA	Class I Zone 1 IIC A/Ex d e IIC Gb
Certification	CSA 2011-2484303U
Other approvals and certificates, see www.bartec.de	

Technical data

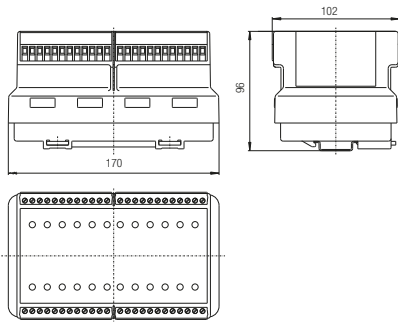
Construction	Flameproof, clip-on enclosure for TH 35 rail
Enclosure material	High-quality thermoplastics
Protection class	Electronic assembly IP 66 EN/IEC 60529 Terminals IP 20 EN/IEC 60529 Terminals with cover IP 30 EN/IEC 60529
Terminals	2.5 mm ² , fine stranded
Device designation	Front plate for labelling
Displays	LEDs on front panel
Storage temperature	-40 °C to +60 °C
Ambient temperature	-25 °C to +60 °C at T4
Weight	2.1 kg

Electrical data

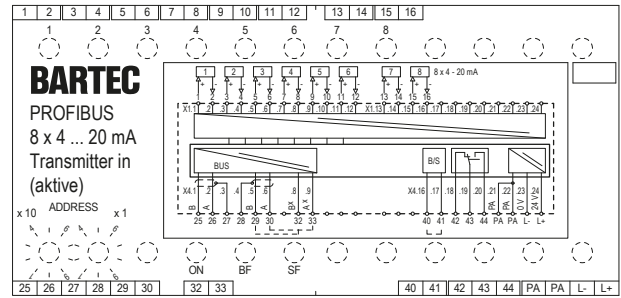
Supply voltage electronics (L +, L-)	DC 24 V (20 to 30 V)
Power consumption (L +, L-)	7.6 W
Reverse polarity protection (L +, L-)	Yes
Power dissipation	max. 5.1 W (Module)
Galvanic isolation	Power supply//bus//circuitry//inputs
Bus interface	RS485 with screw terminals
Displays	Bus status ON, BF, SF Inputs 8 x LEDs LED yellow, sensor active LED red, open circuit/short circuit
Inputs	
Transmission range	0 to 25 mA
Signal range	4 to 20 mA 4 mA = 655 dec. 20 mA = 3276 dec.
Transmission range	0 to 25 mA
Input resistance	R _i = 100 Ω
Conversion time	< 1 ms
Resolution	12 bit
Precision	± 0.2 % (with shielded cable)
Line monitoring	Group error message via bus and relay contact AC 230 V/3 A/100 V



Dimensions/mounting positions



Wiring diagram/terminal assignment



Note

Bridge open circuit/short circuit terminals 40 and 41 to disable open/short circuit monitoring.

Last bus module in system	Bridge A-A ^x (terminals 30, 33) Bridge B-B ^x (terminals 29, 32)
GSD file	BARX2902.gsd
Download	http://automation.bartec.de

Ordering information

PROFIBUS Interface 8 x 4 to 20 mA, 8 transmitter in Ex e

07-7331-2304/3000

Technical data subject to change without notice.

