



In the Ex e version, the MODEX 8 x 4 to 20 mA module with 8 analogue inputs enables 8 analogue active signals to be fed in. 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 <a href="http://www.bartec.de">www.bartec.de</a>	

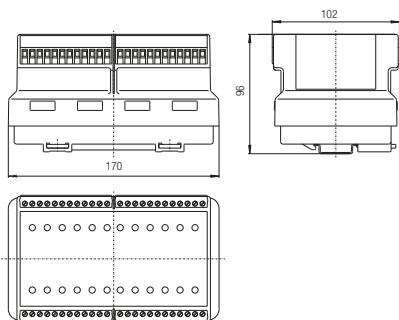
**Technical data**

Construction	Flameproof, clip-on enclosure for TH 35 rail	
Enclosure material	High-quality thermoplastic	
Protection class	Electronic assembly	IP 66 EN/IEC 60529
	Terminals	IP 20 EN/IEC 60529
	Terminals with covers	IP 30 EN/IEC 60529
Terminals	2.5 mm <sup>2</sup> , 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	

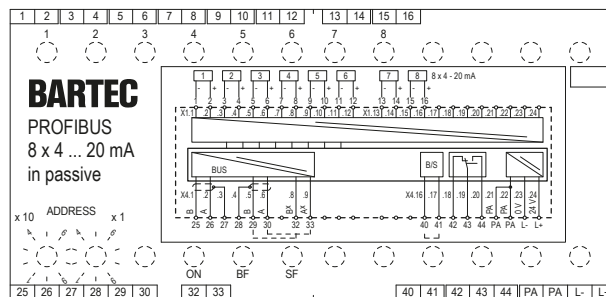
**Electrical data**

Supply voltage electronics (L +, L-)	DC 24 V (20 to 30 V)	
Power consumption (L +, L-)	3.8 W	
Reverse polarity protection (L +, L-)	Yes	
Power dissipation	max. 4.1 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
<b>Inputs</b>		
Signal range	4 to 20 mA 4 mA = 655 dec. 20 mA = 3276 dec.	
Transmission range	0 to 25 mA	
Input resistance	R <sub>i</sub> = 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**

To disable open/short circuit monitoring, bridge terminals 40 and 41

Last bus module in system Bridge A-A<sup>X</sup> (terminals 30, 33)  
 Bridge B-B<sup>X</sup> (terminals 29, 32)

GSD file BARX2902.gsd  
 Download <http://automation.bartec.de>

**Ordering information**

PROFIBUS Interface 8 x 4 to 20 mA in passiv Ex e **07-7331-2304/2000**

Technical data subject to change without notice.

