



PROFIBUS-Interface

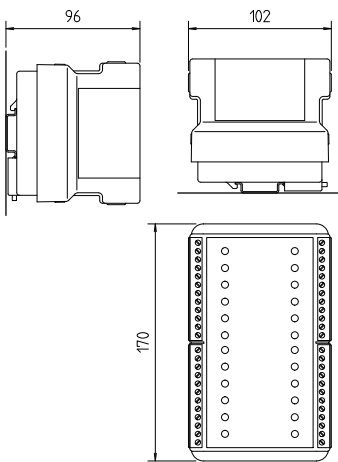
Features

- 8 channels
- Ex ia/ib
- 12 bit resolution
- Galvanic isolation
- LED display
- Programmable address on front panel

Description

This module allows the connection of 8 intrinsically safe transmitters to PROFIBUS-DP in the hazardous area. The input signal is transmitted with 12 bit resolution and high-noise immunity.

Dimensions/mounting positions



Technical data

Construction

Flameproof, clip-on enclosure for TH 35 rail

Enclosure material

High-quality thermoplastics

Protection class

Module	IP 66
Terminals	IP 20
Terminals with covers	IP 30

Terminals

2.5 mm², fine stranded

Labelling

front panel label for markings

Display

LEDs on front panel

Storage temperature

-40 °C to +60 °C

Ambient temperature

-20 °C to +60 °C

Weight

2.1 kg

Electrical data

Supply voltage

DC 20 V to DC 30 V

Power consumption

P = 7.6 W

Power dissipation

P_v = 5.1 W

Galvanic isolation

power supply//inputs//bus//electronic

Bus interface

RS485 with screw-clamping terminals

Display

Bus status	ON, BF, SF
Inputs	8 x double LED LED yellow, sensor active LED red, open circuit/ short circuit

Transmitter power supply

U_a = 15 V at 20 mA
single channels conditionally
short-circuits-proof

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

Accuracy (with shielded cable)

± 0.2 %

Cable monitoring

Group error message via bus and
contact assembly AC 250 V/3 A/100 V

Guidelines/norms/certifications

Directive 2004/108/EC
Directive 94/9/EC

Explosion protection

Ex protection type

Ex II 2(1)G Ex de [ia] IIC

Certification

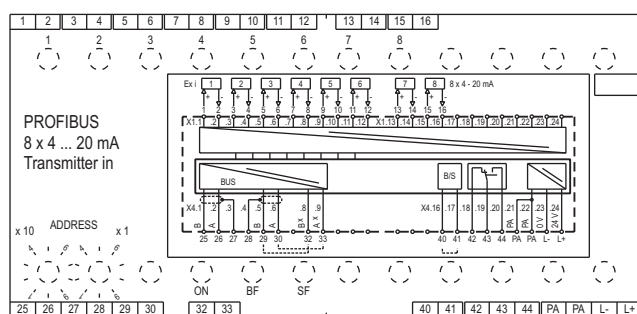
PTB 97 ATEX 1066 U
TÜV 98 ATEX 1367 X
Type 17-6583-34../....

For further data see EC model test certification.

Safety data

U₀ = 26 V
U_m = 253 V
P₀ = 549 mW
I₀ = 84.3 mA
L₀ = 5.3 mH (IIC)/20 mH (IIB)
C₀ = 99 nF (IIC)/770 nF (IIB)
P = 549 mW

Wiring diagram/terminal assignment



Notes

- To disable open/short circuit monitoring, bridge terminals 40 and 41
- Last bus module in system:
Bridge A-A^x (terminals 30, 33)
Bridge B-B^x (terminals 29, 32)
- GSD-file: BARX2902.gsd

➔ **Order no.**
07-7331-2304/0000

Technical data subject to change without notice.