

Transmitter for Coriolis Mass Flow Meter

UMC3 with Profibus PA – Interface

- Microprocessor based
- Profibus PA - Interface
- Intrinsically safe

Function

The microprocessor controlled UMC3 transmitter for use with TM, TME TMR, and TMU sensors is a programmable transmitter that processes measurement data and displays and transmits various types of measurement results.

Application

The Profibus PA interface of the UMC3 offers the possibility of reading measured values, reading and changing of parameters if required. The interface fulfils the requirements of the IEC 1158-2 or IEC 61158. It is intrinsically safe according to the FISCO model.

As a digital field bus instrument the communication via Profibus PA substitutes all analogous process outputs (current outputs and pulse outputs) of the UMC3 standard design. All analogous outputs described in the operator's manual of the standard design are not available at a field bus device.





Technical Data

Transmitter

Power supply:	19 – 36 VDC, 24 VAC \pm 20 % or 90 – 265 VAC
Profile:	3.01
Transfer rate:	31,25 kBaud
Ambient temperature:	-20 °C up to +60 °C, optional +80 °C
Ingress protection	IP 68 (EN60529)
Explosion protection:	BVS 05 ATEX E 021 X
Increased safety EEx e (connection area):	II (1)2G EEx de [ia] IIC/IIB T6–T3
Explosion proof EEx d (connection area):	II (1)2G EEx d [ia] IIC/IIB T6–T3
Intrinsically safe EEx i (signal output):	II (1)2G EEx de [ia] IIC/IIB T6–T3, II (1)2G EEx d [ia] IIC/IIB T6–T3
CE-Marking:	EMC-Directive 89/336/EEC, EN 61000-6-3:2001 (emissions residential environments) EN 61000-6-2:1999 (immunity for industrial environments) Explosion Protection Directive 94/9/EC
Standards:	IEC 1158-2, IEC 61158

For further information see manual UMC3_PA_BA_XX_en.

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