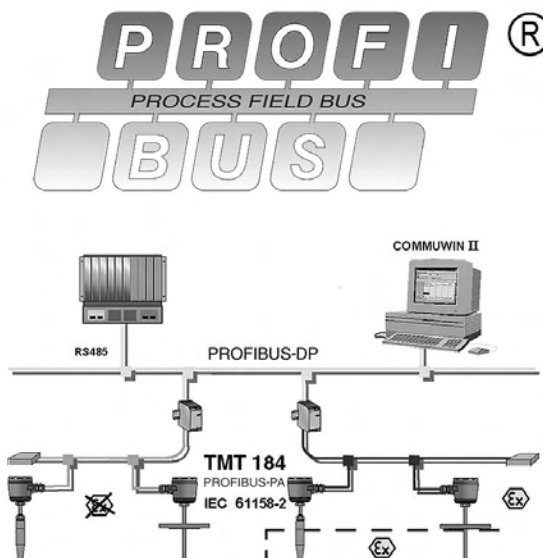


Technical information

iTEMP[®] PA TMT184

Temperature head transmitter with PROFIBUS-PA[®] interface. Supply and digital communication using PROFIBUS-PA[®], for installation in a Form B sensor head.

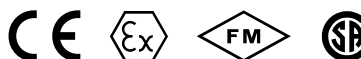


Features and benefits

- Universally programmable for various input signals using PROFIBUS-PA[®]
- DIP switch for address setting
- High accuracy in the total ambient temperature range
- EMC to NAMUR NE 21, CE
- Certification:
 - ATEX Ex ia (FISCO-Model) and dust zone 22 in compliance with EN 50281-1
 - FM IS
 - CSA IS
- PROFIBUS-PA[®] Profile V3.0
- Galvanic isolation
- Sensor curve matching
- Customer specific address setting or expanded Setup (see Questionnaire, page 6)

Application areas

- Applied in a PROFIBUS-PA[®] environment, the process industry fieldbus, an open standard to EN 50170 and IEC 61158-2
- Temperature head transmitter with PROFIBUS-PA[®] protocol for converting various input signals into a digital output signal
- Input:
 - Resistance thermometer (RTD)
 - Thermocouple (TC)
 - Resistance transmitter (Ω)
 - Voltage transmitter (mV)
- Swift and easy operation, visualisation and maintenance using a PC direct from the control panel, e.g. using the COMMUWIN II operating software, Field-Care, Simatic PDM or AMS.



Order structure

Head transmitter iTEMP® PA TMT184			
Universally settable for resistance thermometer, thermocouple, resistance and voltage transmitter; power supply and communication using two wire technology according to IEC 61158-2. PROFIBUS-PA® Profile V3.0; current consumption max. 11 mA; Output block for PROFIBUS-PA® display; for installation in Form B connection head according to DIN 43729.			
Certification			
A			Version for non hazardous areas
B			ATEX II 1G EEx ia IIC T4/T5/T6
C			FM IS, Class I, Div. 1+2, Group A, B, C, D
D			CSA IS, Class I, Div. 1+2, Group A, B, C, D
E			ATEX II 3G EEx nA IIC T4/T5/T6
F			ATEX II 3D
G			ATEX II 1G EEx ia IIC T6, II3D
H			ATEX II 3G EEx nA IIC T6, II3D
Configuration transmitter connection			
A			Standard factory configuration 3-wire
3			RTD (3-wire)
4			RTD (4-wire)
2			RTD (2-wire)
1			Thermocouple (TC)
Configuration temperature sensor			
A			Standard factory configuration Pt100
1			Pt100
2			Ni100
3			Pt500
4			Ni500
5			Pt1000
6			Ni1000
7			Resistance transmitter 10 to 400 Ohm
8			Resistance transmitter 10 to 2000 Ohm
B			Type B
C			Type C
D			Type D
E			Type E
J			Type J
K			Type K
L			Type L
N			Type N
R			Type R
S			Type S
T			Type T
U			Type U
V			Voltage transmitter -10 to 75 mV
Configuration			
A			Standard factory setup [Pt100/3-wire/addr. 126]
B			Customer specific sensor type and bus address
C			Customer specific expanded settings TC (see questionnaire)
D			Customer specific expanded settings RTD (see questionnaire)
Model			
A			DIP switch (bus address)
C			DIP switch (bus address) + Works calibration certificate, 6 test points
E			DIP switch (bus address), replacement TMD 834
TMT184-			← Order-Code

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