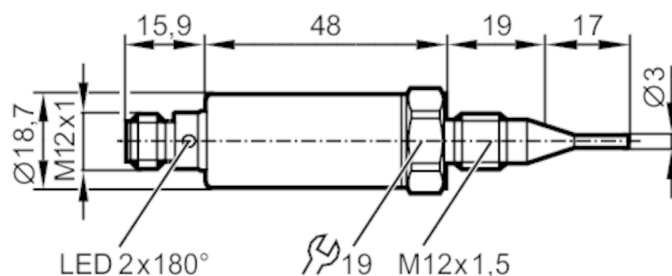


TA1102



Temperature transmitter

TA-017C2EM12- A-ZVG/US



EC 1935/2004

FCM



Product characteristics

Number of inputs and outputs	Number of analog outputs: 1
Measuring range [°C]	-50...200
Process connection	threaded connection M12 x 1,5 external thread sealing cone
Installation length EL [mm]	17

Application

Measuring element	1 x Pt 1000; (to DIN EN 60751, class A)
Media	liquids and gases
Pressure rating	100 bar 10 MPa
Vacuum resistance	-1000 mbar -0.1 MPa

Electrical data

Operating voltage [V]	18...32 DC; (cULus - Class 2 source required)
Current consumption [mA]	< 50
Protection class	III
Reverse polarity protection	yes
Power-on delay time [s]	2

Inputs / outputs

Number of inputs and outputs	Number of analog outputs: 1
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Outputs

Total number of outputs	1
Output signal	analog signal; IO-Link; (configurable)
Number of analog outputs	1
Analog current output [mA]	4...20
Max. load [Ω]	250; ((18...19 V); 19...32 V: 300 Ω)
Short-circuit protection	yes
Overload protection	yes

Measuring/setting range

Probe length L [mm]	10.8
Measuring range [°C]	-50...200
Factory setting	0...200 °C

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Resolution		
Resolution of analog output	[K]	0.04
Accuracy / deviations		
Precision analog output	[K]	$\pm 0,3 + (\pm 0,1 \% \text{ MS})$
Temperature coefficient [% of the span / 10 K]		0,1; (In case of deviation from the reference condition $25 \pm 5 \text{ }^{\circ}\text{C}$)
Reaction times		
Dynamic response T05 / T09	[s]	< 0,25 / < 1
Interfaces		
Communication interface		IO-Link
Transmission type		COM2 (38,4 kBaud)
IO-Link revision		1.1
Profiles	Smart Sensor - SSP 0	Generic Profiled Sensor
	Function	Device identification
	Function	Process data variable
Min. process cycle time	[ms]	2.3
Supported DeviceIDs	Type of operation	DeviceID
	default	969
Operating conditions		
Ambient temperature	[$^{\circ}\text{C}$]	-25...80
Note on ambient temperature		at medium temperature: < 160 $^{\circ}\text{C}$
		-25...60 $^{\circ}\text{C}$
		at medium temperature: < 200 $^{\circ}\text{C}$
Storage temperature	[$^{\circ}\text{C}$]	-40...100
Protection		IP 67; IP 68; IP 69K
Tests / approvals		
EMC	DIN EN 61000-6-2	
	DIN EN 61000-6-3	
Shock resistance	DIN IEC 68-2-27	50 g (11 ms)
Vibration resistance	DIN IEC 68-2-6	10 g (10...2000 Hz)
MTTF	[years]	334
Note on approval	Factory certificate available as download at www.factory-certificate.ifm	
UL approval	UL approval number	K002
Mechanical data		
Weight	[g]	111.5
Housing		tubular
Dimensions	[mm]	$\varnothing 18.7 / L = 99.9$
Material		stainless steel (1.4404 / 316L); PEI; FKM
Materials (wetted parts)		stainless steel (1.4404 / 316L) electropolished
Tightening torque	[Nm]	20
Process connection		threaded connection M12 x 1,5 external thread sealing cone
Surface characteristics Ra/Rz of the wetted parts		Ra < 0.8 μm
Probe diameter	[mm]	3
Installation length EL	[mm]	17

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Remarks	
Remarks	MS = set measuring span The values for accuracy apply to flowing water.
Pack quantity	1 pcs.

Electrical connection

Connector: 1 x M12; coding: A; Contacts: 4



Connection

