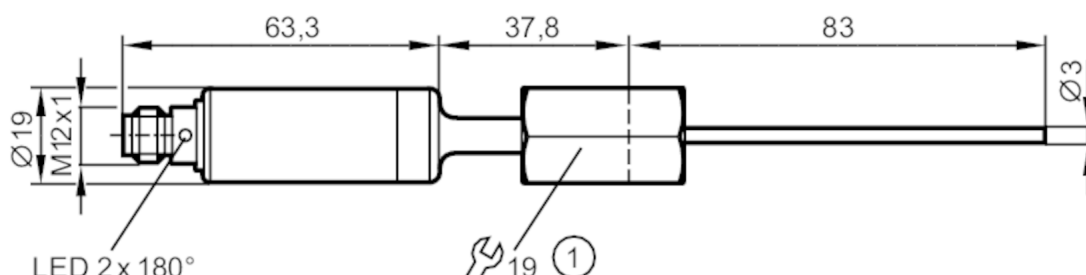


Temperature transmitter

TA-083C2EM38- A-ZVG/US



1 G 3/8 internal thread



Product characteristics

Number of inputs and outputs	Number of analogue outputs: 1
Measuring range [°C]	-50...200
Communication interface	IO-Link
Process connection	threaded connection G 3/8 internal thread \$Ueberwurfmutter_gefedert
Installation length EL [mm]	83

Application

Measuring element	1 x Pt 1000; (to DIN EN 60751, class A)
Media	liquids and gases
Vacuum resistance [MPa]	-0.1

Electrical data

Operating voltage [V]	18...32 DC; ("supply class 2" to cULus)
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 analogue outputs: 1
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Outputs

Total number of outputs	1
Output signal	analogue signal; IO-Link; (configurable)
Number of analogue outputs	1
Analogue 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]	83
Measuring range [°C]	-50...200
Factory setting	0...200 °C

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Resolution		
Resolution of analogue output	[K]	0.04
Accuracy / deviations		
Precision analogue 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 $25 \pm 5 \text{ }^{\circ}\text{C}$)
Response 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
Operating conditions		
Ambient temperature	[$^{\circ}\text{C}$]	-25...80
Note on ambient temperature		at medium temperature: $< 160 \text{ }^{\circ}\text{C}$
		-25...60 $^{\circ}\text{C}$
		at medium temperature: $< 200 \text{ }^{\circ}\text{C}$
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 no.	K002
Mechanical data		
Weight	[g]	175.5
Housing		cylindrical
Dimensions	[mm]	$\varnothing 19 / L = 184.1$
Materials		stainless steel (316L/1.4404); stainless steel (1.4122); PEI; FKM
Tightening torque	[Nm]	10
Process connection		threaded connection G 3/8 internal thread \$Ueberwurfmutter_gefedert
Probe diameter	[mm]	3
Installation length EL	[mm]	83
Remarks		
Remarks		MS = set measuring span
		The values for accuracy apply to flowing water.
Pack quantity		1 pcs.

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Electrical connection

Connector: 1 x M12; coding: A



Connection

