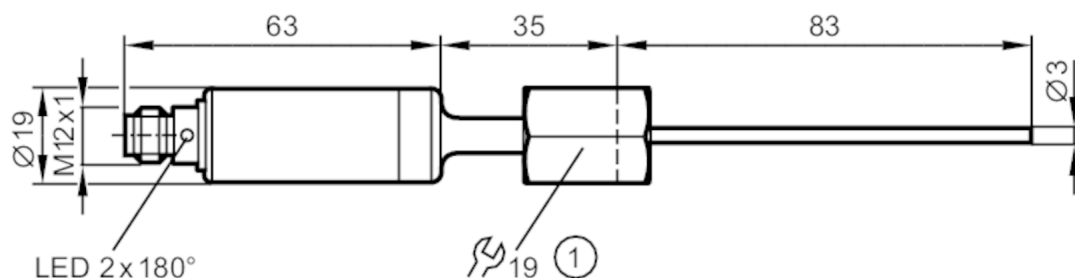


TA1321



Temperature transmitter

TA-083C1EM38- A-ZVG/US



1 G 3/8 internal thread



Application	
Measuring element	1 x Pt 1000; (to DIN EN 60751, class A)
Media	liquids and gases
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
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	
Measuring range [$^{\circ}\text{C}$]	-50...200
Factory setting	-10...150 $^{\circ}\text{C}$
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 $25 \pm 5^{\circ}\text{C}$)
Response times	
Dynamic response T05 / T09 [s]	< 0,25 / < 1

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Interfaces

Transmission type	COM2 (38,4 kBaud)
IO-Link revision	1.1

Operating conditions

Ambient temperature	[°C]	-25...80
Note on ambient temperature		at medium temperature: < 160 °C
		-25...60 °C
		at medium temperature: < 200 °C
Storage temperature	[°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
UL approval	UL Approval no.	K002

Mechanical data

Weight	[g]	174
Housing		suitable for thermowell mounting
Materials		stainless steel (1.4404 / 316L); stainless steel (1.4122); PEI; FKM
Tightening torque	[Nm]	10
Process connection		G 3/8 internal thread
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.

Electrical connection

Connector: 1 x M12



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Connection

