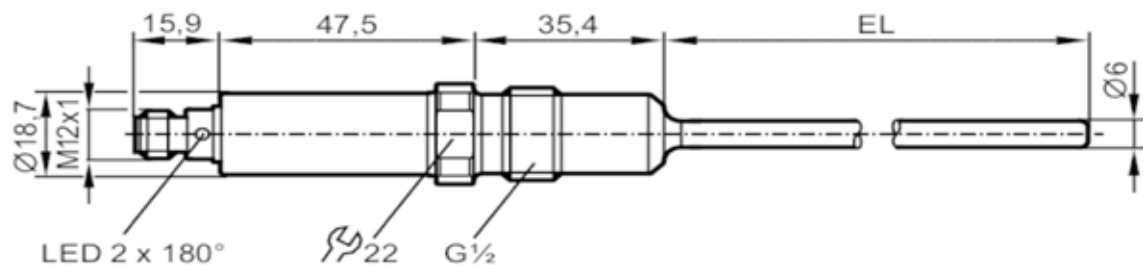


Temperature Transmitter TA1612



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 1/8 internal thread
Installation length EL [mm]	25
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
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]	25
Measuring range [°C]	-50...200
Factory setting	0...200 °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 $25 \pm 5 \text{ °C}$)

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 [°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	20 g (10...2000 Hz)
MTTF	334	
Mechanical data		
Weight [g]	46.409	
Housing	cylindrical	
Dimensions [mm]	Ø 19 / L = 119	
Materials	stainless steel (316L/1.4404); stainless steel (1.4122); PEI; FKM	
Process connection	threaded connection G 1/8 internal thread	
Surface characteristics Ra/Rz of the wetted parts	Ra: < 0.8	
Probe diameter [mm]	3	
Installation length EL [mm]	25	
Displays / operating elements		
Display	operation	1 LED, green
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	Connection	

