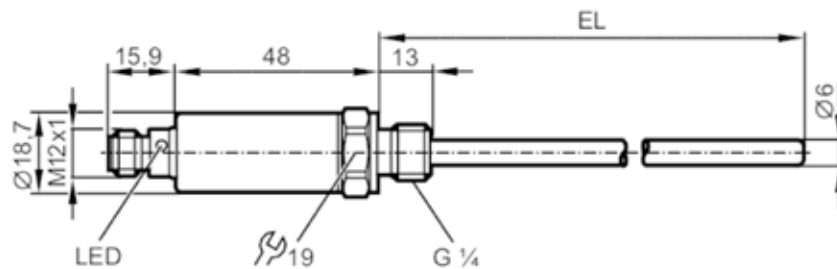



Temperature Transmitter TA2145



Product characteristics	
Number of inputs and outputs	Number of analogue outputs: 1
Measuring range	-50...150
Communication interface	IO-Link
Process connection	threaded connection 1/2" NPT external thread
Installation length EL [mm]	150
Application	
Special feature	Gold-plated contacts
Measuring element	1 x Pt 1000; (to DIN EN 60751, class A)
Media	liquids and gases
Pressure rating	300 bar 30 MPa
Note on pressure rating	sensor When mounted in adapters the specifications of the adapter data sheet apply.
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]	1
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]	137
Measuring range	-10...150 °C 14...302 °F
Factory setting	0...300 °F
Resolution	
Resolution of analogue output [K]	0.04
Accuracy / deviations	
Precision analogue output [K]	$\pm 0,3 + (\pm 0,1 \% MS)$

Temperature coefficient [% of the span / 10 K]	0,1; (in case of deviation from the reference condition 25 ± 5 °C)	
Response times		
Dynamic response T05 / T09 [s]	1 / 3	
Interfaces		
Communication interface	IO-Link	
Transmission type	COM2 (38,4 kBaud)	
IO-Link revision	1.1	
Operating conditions		
Ambient temperature [°C]	-25...80	
Storage temperature [°C]	-40...100	
Protection	IP 67; IP 68; IP 69K	
Tests / approvals		
EMC	DIN EN 61000-6-2	
Shock resistance	DIN IEC 68-2-27	50 g (11 ms)
Vibration resistance	DIN IEC 68-2-6	20 g (10...2000 Hz)
MTTF [years]	572	
UL approval	UL Approval no.	K002
Mechanical data		
Weight [g]	108	
Housing	cylindrical	
Dimensions [mm]	Ø 18.7 / L = 175.7	
Materials	stainless steel (316L/1.4404); PEI; FKM	
Materials (wetted parts)	stainless steel (316L/1.4404)	
	35	
Process connection	threaded connection 1/2" NPT external thread	
Probe diameter [mm]	6	
Installation length EL [mm]	150	
Displays / operating elements		
Display	operating status	1 x LED, green
Remarks		
Remarks	MS = set measuring span	
Pack quantity	1 pcs.	
Electrical connection		
Connector: 1 x M12; coding: A; Contacts: gold-plated		
Connection	