

TA2247

Temperature transmitter

TA-150CLED06- - /US



Product characteristics

Number of inputs and outputs	Number of analogue outputs: 1
Measuring range [°C]	-50...200
Communication interface	IO-Link
Process connection	Ø 6 mm
Installation length EL [mm]	150

Application

Measuring element	1 x Pt 1000; (to DIN EN 60751, class A)
Media	liquids and gases
Pressure rating [bar]	160
Vacuum resistance [mbar]	-1000

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]	300
Short-circuit protection	yes
Overload protection	yes

Measuring/setting range

Measuring range [°C]	-50...200
Factory setting	0...100 °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]	< 0,5 / < 2
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 $^{\circ}\text{C}$
		-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]	324
Note on approval		factory certificate available as download at www.factory-certificate.ifm
UL approval	UL Approval no.	K002
Mechanical data		
Weight	[g]	161.5
Dimensions	[mm]	$\varnothing 18.7$
Materials		stainless steel (316L/1.4404); PEI; FKM
Materials (wetted parts)		stainless steel (316L/1.4404) electropolished
Process connection		$\varnothing 6 \text{ mm}$
Surface characteristics Ra/Rz of the wetted parts		Ra: < 0.8
Probe diameter	[mm]	6
Installation length EL	[mm]	150
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

