

TA2405



Temperature transmitter

TA-030CLER12-A-ZVG/US



Product characteristics

Number of inputs and outputs	Number of analogue outputs: 1
Measuring range [°C]	-50...150
Communication interface	IO-Link
Process connection	threaded connection G 1/2
Installation length EL [mm]	30

Application

Special feature	Gold-plated contacts
Measuring element	1 x Pt 1000; (to DIN EN 60751, class A)
Media	liquids and gases
Pressure rating [bar]	400
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
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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

Measuring range [°C]	-50...150
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Factory setting		-50...150 °C	
Resolution			
Resolution of analogue output	[K]	0.04	
Accuracy / deviations			
Precision analogue output	[K]	± 0,3 + (± 0,1 % MS)	
Temperature coefficient	[X22]	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	[ANN]	572	
UL approval	UL Approval no.		K002
Mechanical data			
Weight	[g]	122.5	
Materials	stainless steel (1.4404 / 316L); PEI; FKM		
Materials (wetted parts)	stainless steel (1.4404 / 316L); O-ring: FKM		
Tightening torque	[Nm]	45	
Process connection	threaded connection G 1/2		
Probe diameter	[mm]	6	
Installation length EL	[mm]	30	
Displays / operating elements			
Display	operating status		1 x LED, green
Remarks			
Remarks	MS = set measuring span		
Pack quantity	1 pcs.		

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Electrical connection

Connector: 1 x M12; coding: A; Contacts: gold-plated



Connection



Diagrams and graphs