

TA2345



Temperature transmitter

TA-150CLEN12-A-ZVG/US



Product characteristics

Number of inputs and outputs	Number of analog outputs: 1
Measuring range [°C]	-50...150
Communication interface	IO-Link
Process connection	threaded connection 1/2" NPT external thread
Installation length EL [mm]	150

Application

System	gold-plated contacts
Measuring element	1 x Pt 1000; (to DIN EN 60751, class A)
Media	liquids and gases
Pressure rating	160 bar 16 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; (cULus - Class 2 source required)
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 analog outputs: 1
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Outputs

Total number of outputs	1
Output signal	analog signal; IO-Link; (configurable)
Number of analog outputs	1
Analog 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 analog output		[K]	0.04
Accuracy / deviations			
Precision analog output		[K]	± 0,3 + (± 0,1 % MS)
Temperature coefficient		0,1; (In case of deviation from the reference condition 25 ± 5 °C)	
		[% of the span / 10 K]	
Reaction times			
Dynamic response T05 / T09		[s]	1 / 3
Interfaces			
Communication interface		IO-Link	
Transmission type		COM2 (38,4 kBaud)	
IO-Link revision		1.1	
Profiles		Smart Sensor - SSP 0	
		Generic Profiled Sensor	
		Function	
		Device identification	
		Function	
		Process data variable	
Min. process cycle time		[ms]	2.3
Supported DeviceIDs		Type of operation	
		DeviceID	
		default	
		377	
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	
Vibration resistance		DIN IEC 68-2-6	
MTTF		[years]	320
UL approval		UL approval number	
		K002	
Mechanical data			
Weight		[g]	149
Dimensions		[mm]	Ø 18.7 / L = 225.7
Material		stainless steel (1.4404 / 316L); PEI; FKM	
Materials (wetted parts)		stainless steel (1.4404 / 316L)	
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.	

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Electrical connection

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



Connection

