

TA2437



Temperature transmitter

TA-100CLER12-A-ZVG/US



Application

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

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
Factory setting	0...100 °C

Resolution

Resolution of analogue output [K]	0.04
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Accuracy / deviations

Precision analogue output [K]	± 0,3 + (± 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
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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]	230
UL approval	UL Approval no.	K002

Mechanical data

Weight	[g]	131
Materials		stainless steel (1.4404 / 316L); PEI; FKM
Materials (wetted parts)		stainless steel (1.4404 / 316L); O-ring: FKM
Process connection		threaded connection G 1/2
Probe diameter	[mm]	6
Installation length EL	[mm]	100

Displays / operating elements

Display	operating status	1 x LED, green
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Remarks

Remarks	MS = set measuring span
Pack quantity	1 pcs.

Electrical connection

Connector: 1 x M12; Contacts: gold-plated



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Connection

