

TD2863



Temperature Transmitter with Display

TD-250FFEC01-A-ZVG/US



1 1.5" Clamp ISO 2852
EL = Installation length



CRN



EC 1935/2004

FCM



Product characteristics

Number of inputs and outputs

Number of analog outputs: 1

Measuring range

-50...150 °C

-58...302 °F

Communication interface

IO-Link

Process connection

Clamp DN25...DN40 (1...1,5") DIN 32676 (ISO 2852)

Installation length EL [mm]

250

Application

Measuring element

1 x Pt 1000; (to DIN EN 60751, class A)

Media

liquids and gases

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Pressure rating	100 bar	10 MPa
Vacuum resistance	-1000 mbar	-0.1 MPa
MAWP (for applications according to CRN) [bar]	60	
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]	2	
Inputs / outputs		
Number of inputs and outputs	Number of analog outputs: 1	
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]	300	
Short-circuit protection	yes	
Overload protection	yes	
Measuring/setting range		
Measuring range	-50...150 °C	-58...302 °F
Factory setting	0...300 °F	
Resolution		
Resolution of analog output [K]	0.04	
Resolution of display [K]	0.28	
Accuracy / deviations		
Precision analog 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 °C)	
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	
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	
	DIN EN 61000-6-3	
Shock resistance	DIN IEC 68-2-27	50 g (11 ms)

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Vibration resistance	DIN IEC 68-2-6	10 g (10...2000 Hz)
Note on approval	Factory certificate available as download at www.factory-certificate.ifm	
UL approval	UL approval number	K001

Mechanical data

Weight	[g]	328.5
Housing		tubular
Dimensions	[mm]	Ø 50.5 / L = 319.4
Material		stainless steel (1.4404 / 316L); PEI; FKM
Materials (wetted parts)		stainless steel (1.4404 / 316L) electropolished
Process connection		Clamp DN25...DN40 (1...1,5") DIN 32676 (ISO 2852)
Surface characteristics Ra/Rz of the wetted parts		Ra < 0.8 µm
Probe diameter	[mm]	6
Installation length EL	[mm]	250

Displays / operating elements

Display		7-segment LED display, 4-digit
		Display unit / status, °C / °F

Remarks

Remarks	MS = set measuring span	
	The values for accuracy apply to flowing water.	
Pack quantity		1 pcs.

Electrical connection

Connector: 1 x M12; coding: A



Connection

