

TD2231



Temperature transmitter with display

TD-100CFED06-A-ZVG/US



EL = installation length



Product characteristics		
Number of inputs and outputs	Number of analogue outputs: 1	
Measuring range	-50...150 °C	-58...302 °F
Communication interface	IO-Link	
Process connection	Ø 6 mm	
Installation length EL [mm]	100	
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	



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Inputs / outputs			
Number of inputs and outputs		Number of analogue outputs: 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]		300	
Short-circuit protection		yes	
Overload protection		yes	
Measuring/setting range			
Measuring range		-50...150 °C	-58...302 °F
Factory setting		-10...150 °C	
Resolution			
Resolution of analogue output [K]		0.04	
Resolution of display [K]		0.1	
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 °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	
		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]		407	
Note on approval		factory certificate available as download at www.factory-certificate.ifm	
UL approval		UL Approval no.	K001
Mechanical data			
Weight [g]		257.5	
Dimensions [mm]		Ø 6	
Materials		stainless steel (316L/1.4404); PEI; FKM	
Materials (wetted parts)		stainless steel (316L/1.4404) electropolished	

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Process connection	Ø 6 mm
Surface characteristics Ra/Rz of the wetted parts	Ra: < 0.8
Probe diameter [mm]	6
Installation length EL [mm]	100

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

