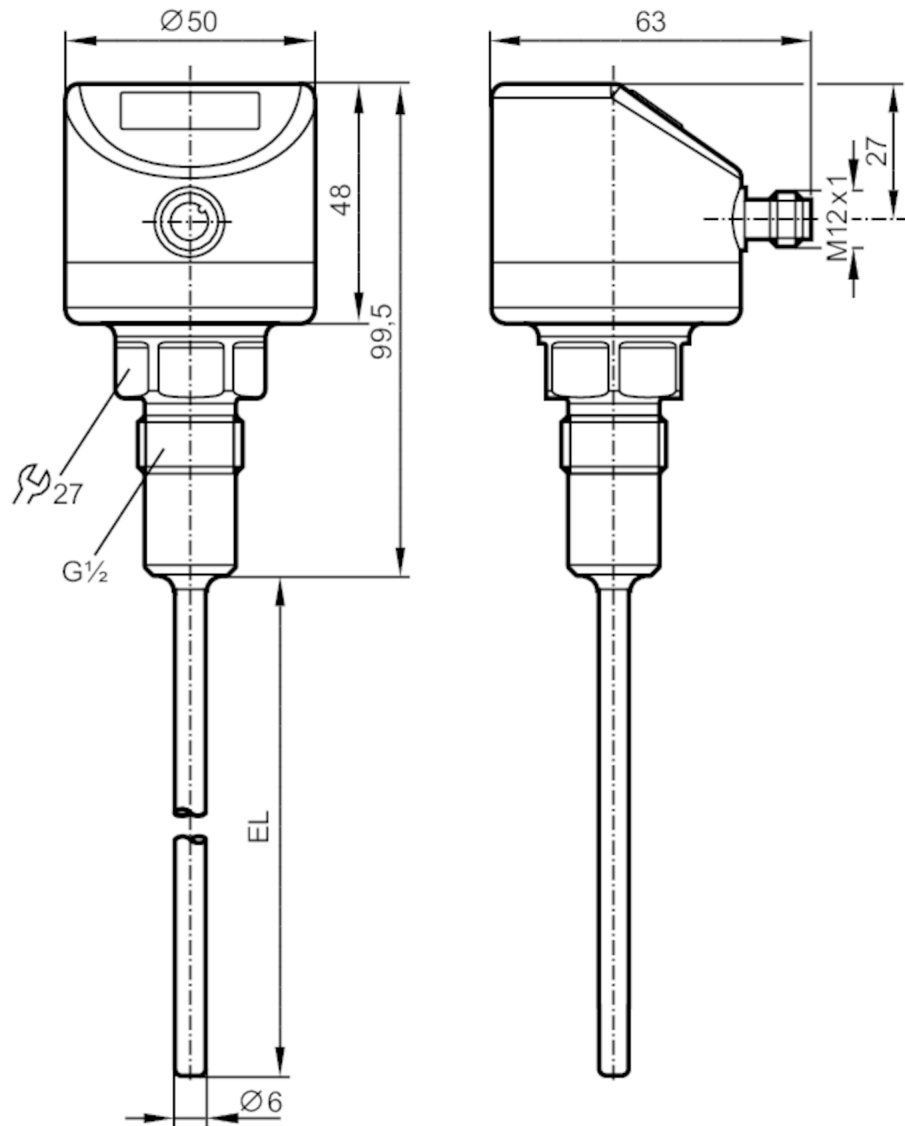


# TD2507



## Temperature Transmitter with Display

TD-030CFER12-A-ZVG/US



EL = Installation length



EC 1935/2004

EHEDG Certified

FCM



IO-Link



### 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	threaded connection G 1/2 external thread sealing cone	
Installation length EL [mm]	30	

### Application

Measuring element	1 x Pt 1000; (to DIN EN 60751, class A)	
Media	liquids and gases	
Pressure rating	160 bar	16 MPa
Vacuum resistance	-1000 mbar	-0.1 MPa

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MAWP (for applications according to CRN)	[bar]	160
<b>Electrical data</b>		
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
<b>Inputs / outputs</b>		
Number of inputs and outputs		Number of analog outputs: 1
<b>Outputs</b>		
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
<b>Measuring/setting range</b>		
Probe length L	[mm]	30
Measuring range		-50...150 °C      -58...302 °F
Factory setting		0...100 °C
<b>Resolution</b>		
Resolution of analog output	[K]	0.04
Resolution of display	[K]	0.1
<b>Accuracy / deviations</b>		
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)
<b>Reaction times</b>		
Dynamic response T05 / T09	[s]	1 / 3
<b>Interfaces</b>		
Communication interface		IO-Link
Transmission type		COM2 (38,4 kBaud)
IO-Link revision		1.1
Profiles		Smart Sensor - SSP 0      Generic Profiled Sensor
Min. process cycle time	[ms]	2.3
Supported DeviceIDs	<b>Type of operation</b>	<b>DeviceID</b>
	default	374
<b>Operating conditions</b>		
Ambient temperature	[°C]	-25...80
Storage temperature	[°C]	-40...100
Protection		IP 67; IP 68; IP 69K

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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]		405
Note on approval	Factory certificate available as download at <a href="http://www.factory-certificate.ifm">www.factory-certificate.ifm</a>	
UL approval	UL approval number	K001

Mechanical data		
Weight [g]		343
Housing		tubular
Dimensions [mm]		Ø 50 / L = 129.5
Material		stainless steel (1.4404 / 316L); PEI; FKM
Materials (wetted parts)		stainless steel (1.4404 / 316L) electropolished
Tightening torque [Nm]		30...50
Process connection		threaded connection G 1/2 external thread sealing cone
Surface characteristics Ra/Rz of the wetted parts		Ra < 0.8 µm
Probe diameter [mm]		6
Installation length EL [mm]		30

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

