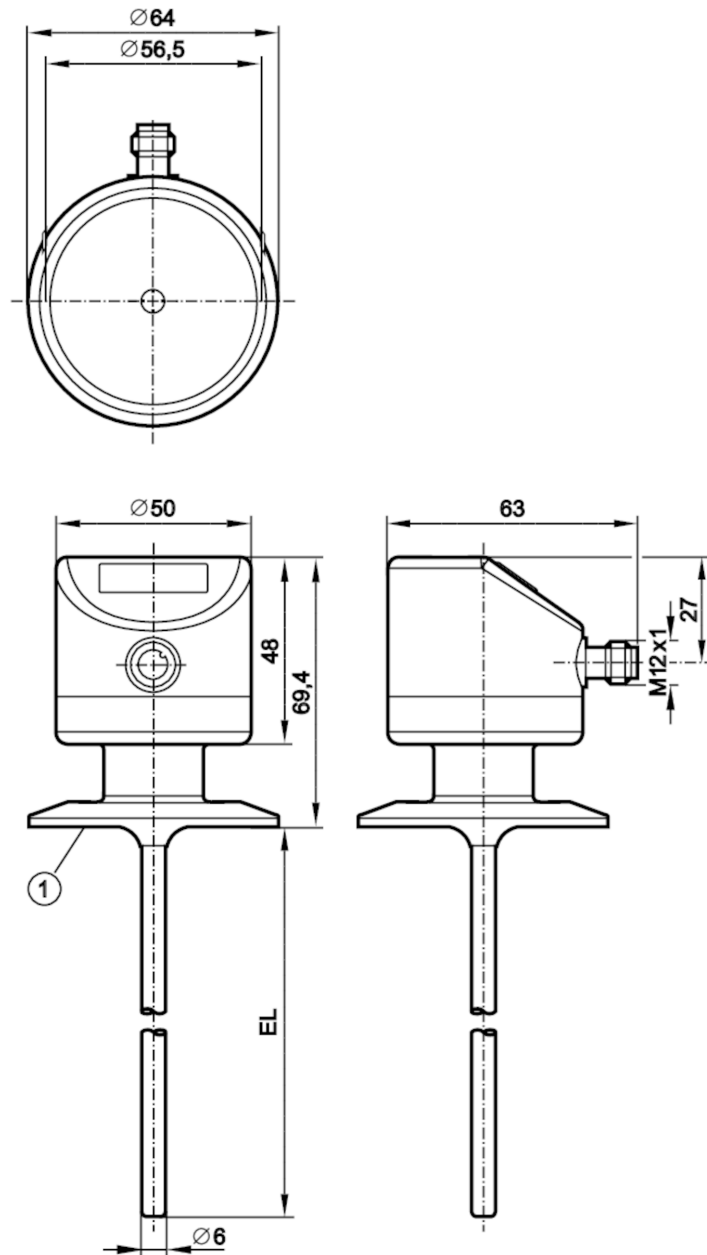


# TD2933



## Temperature transmitter with display

TD-100FFEC02-A-ZVG/US



1 2" Clamp ISO 2852  
EL = installation length



EC 1935/2004

EHDG Certified

FCM



### 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	Clamp DN50 (2") DIN 32676 (ISO 2852)	
Installation length EL [mm]	100	

### 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
<b>Electrical data</b>		
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	
<b>Inputs / outputs</b>		
Number of inputs and outputs	Number of analogue outputs: 1	
<b>Outputs</b>		
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 [ $\Omega$ ]	300	
Short-circuit protection	yes	
Overload protection	yes	
<b>Measuring/setting range</b>		
Probe length L [mm]	100	
Measuring range	-50...150 °C	-58...302 °F
Factory setting	0...300 °F	
<b>Resolution</b>		
Resolution of analogue output [K]	0.04	
Resolution of display [K]	0.28	
<b>Accuracy / deviations</b>		
Precision analogue output [K]	$\pm 0,3 + (\pm 0,1 \% MS)$	
Temperature coefficient [% of the span / 10 K]	0,1; (in case of deviation from the reference condition 25 °C)	
<b>Response 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> default	<b>DeviceID</b> 376
<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)
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 no.	K001

Mechanical data		
Weight	[g]	397
Materials		stainless steel (316L/1.4404); PEI; FKM
Materials (wetted parts)		stainless steel (316L/1.4404) electropolished
Process connection		Clamp DN50 (2") DIN 32676 (ISO 2852)
Surface characteristics Ra/Rz of the wetted parts		Ra < 0.8 µm
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

