

EL = Installation length



**Product characteristics**

Temperature Transmitter with Display
Process connection: Ø 6 mm
Installation length EL: 100 mm
Analog output
7-segment LED display (4 digits)
Measuring range: -50...150 °C / -58...302 °F
Measuring element: 1 x Pt 1000, to DIN EN 60751, class A
Factory setting: 0...300 °F

**Application**

Application	liquids and gases
Pressure rating [bar]	160
Vacuum resistance [mbar]	-1000

**Electrical data**

Electrical design	DC
Operating voltage [V]	18...32 DC; cULus - Class 2 source required
Current consumption [mA]	< 50
Protection class	III
Reverse polarity protection	yes

**Outputs**

Output	Analog output
Short-circuit protection	yes
Overload protection	yes
Analog output	4...20 mA
Max. load [Ω]	300

**Measuring / setting range**

Measuring range	-50...150 °C	-58...302 °F
Factory setting	0...300 °F	

**TD2233**

TD-100FFED06-A-ZVG/US

Temperature sensors

Resolution

Analog output	[K]	≤ 0.04
Display	[K]	0.28

**Accuracy / deviations**

Analog output	[K]	± 0.3 + (± 0.1 % MS)
Temperature coefficients (in % of the span per 10 K)		0.1

**Reaction times**

Power-on delay time	[s]	2
Dynamic response	T05 / T09 [s]	1 / 3

**Interfaces**

IO-Link Device		
Transfer type		COM2 (38.4 kBaud)
IO-Link revision		1.1

**Environment**

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
UL approval number		K001

**Mechanical data**

Process connection		Ø 6 mm
Materials (wetted parts)		stainless steel 316L / 1.4404; surface characteristics Ra: < 0.6
Probe diameter	[mm]	6
Installation length EL	[mm]	100
Housing materials		housing: stainless steel 316L / 1.4404
Weight	[kg]	0.255

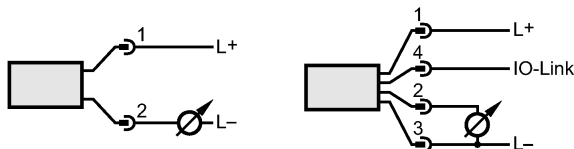
**Displays / operating elements**

Display		7-segment LED display (4 digits) Display unit / status °C / °F
---------	--	---

**Electrical connection**

Connection		M12 connector
------------	--	---------------

**Wiring**



**Remarks**



**TD2233**

TD-100FFED06-A-ZVG/US

**Temperature sensors**

Remarks	MS = set measuring span
Pack quantity [piece]	1