TAP161

Temperature transmitter

TAP100KLES30-PRAVG/US/

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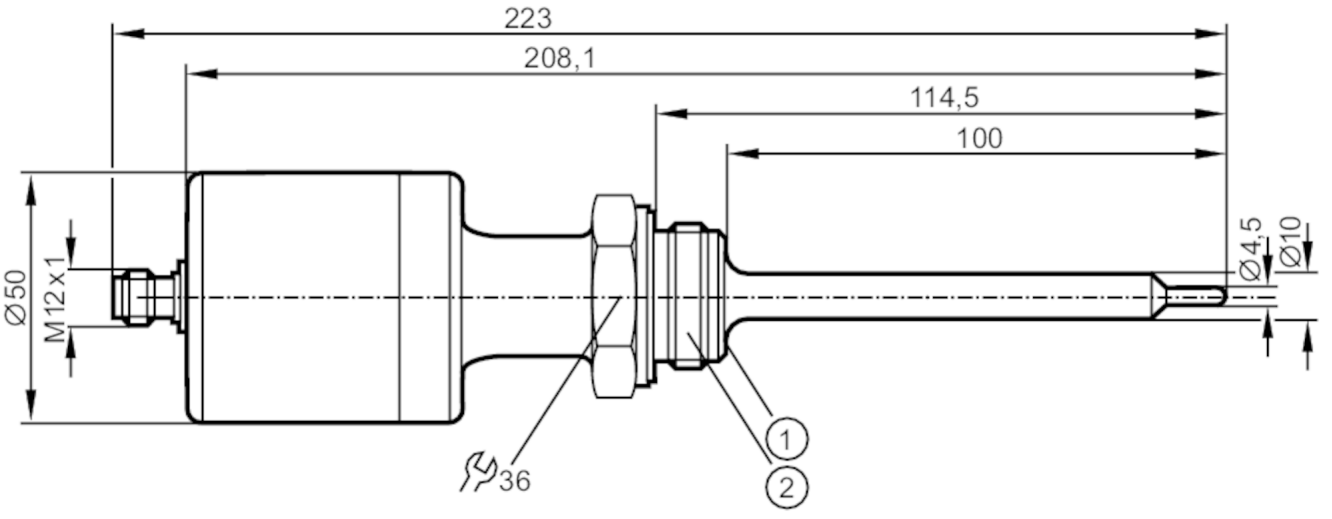

1 sealing area
2 Aseptoflex thread

EHEDG Certified

Product characteristics			
Measuring range		-25...150 °C	-13...302 °F
Process connection		G 1 Aseptoflex Vario	
Application			
Special feature		Gold-plated contacts	
Measuring element		1 x Pt 1000 + 1 x NTC; (thermically coupled, with backup function (temperature measuring even if one element fails))	
Application		suitable for all standard CIP and SIP processes	
Media		liquids and gases	
Pressure rating	[bar]	50	
Minimum installation depth	[mm]	15	
No dead space		yes	
Electrical data			
Operating voltage	[V]	9...32 DC; (to SELV/PELV)	
Current consumption	[mA]	< 15.6; (max. fault current : 21,8)	
Protection class		III	
Reverse polarity protection		yes	
Power-on delay time	[s]	35	
Integrated watchdog		yes	
Outputs			
Overload protection		yes	
Measuring/setting range			
Probe length L	[mm]	100	

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Measuring range		-25...150 °C	-13...302 °F
Drift warning		0.2...5 °C	0.4...9 °F
Drift alarm		0.2...5 °C	0.4...9 °F
In steps of		0.05 °C	0.1 °F
Accuracy / deviations			
Drift monitoring	[K]	± 0,2 (-10...100°C); ± 0,3 (-25...-10/100...150°C) *); (probe completely inserted into the measured medium up to the sealing chamfer)	
Temperature coefficient [% of the span / 10 K]		< ± 0,01; (in case of deviation from the reference condition 25 ± 5 °C)	
Response times			
Dynamic response T05 / T09	[s]	6 / 13	
Max. measuring/display cycle	[ms]	600	
Software / programming			
Parameter setting options		parameter setting to PROFIBUS PA profile temperature transmitter, version 3.01; I&M-Parameter; drift and diagnostic function	
Operating conditions			
Ambient temperature	[°C]	-25...70	
Note on ambient temperature		electronics: -25...70 °C	
		Process connection: -32...170 °C	
Storage temperature	[°C]	-40...85	
Protection		IP 68; IP 69K	
Tests / approvals			
EMC		DIN EN 61000-4-2 ESD	4 kV CD / 8 kV AD
		EN 61000-4-3 HF radiated	10 V/m
		DIN EN 61000-4-4 Burst	2 kV
		EN 61000-4-6 HF conducted	10 V
Shock resistance		DIN IEC 68-2-27	50 g (11 ms)
Vibration resistance		DIN EN 60068-2-6	20 g (10...2000 Hz)
Note on approval		Including free 5-point calibration certificate.	
Mechanical data			
Materials		stainless steel (316L/1.4404); PEI; FKM	
Materials (wetted parts)		stainless steel (316L/1.4404)	
Process connection		G 1 Aseptoflex Vario	
Surface characteristics Ra/Rz of the wetted parts		Ra: < 0.6	
Remarks			
Remarks		n.c. = not used	
		operating voltage "supply class 2" according to cULus	
		9...24 V DC when used inside the hazardous area	
Pack quantity		1 pcs.	

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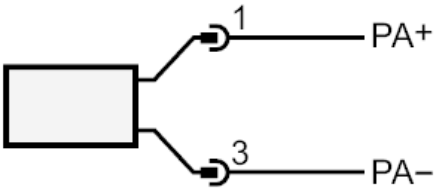
Electrical connection

Connection



Connector: 1 x M12; Contacts: gold-plated