

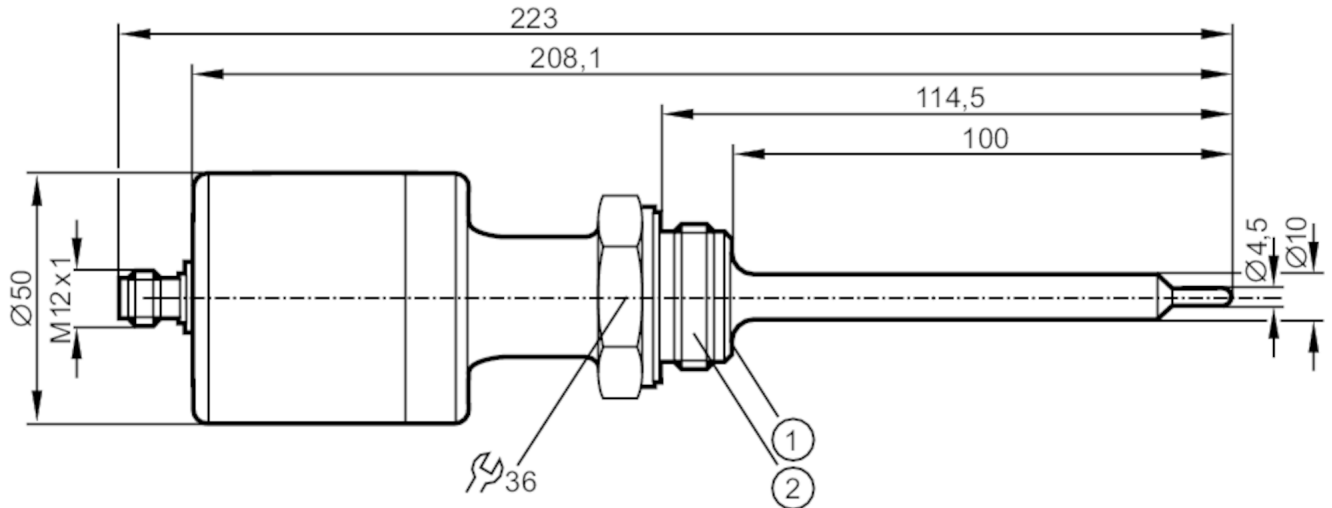
# TAP161



## Temperature transmitter

TAP100KLES30-PRAVG/US/

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- 1 sealing area
- 2 Asepto-flex thread



EHEDG Certified

### Product characteristics

Measuring range	-25...150 °C	-13...302 °F
Process connection	G 1 Asepto-flex Vario	

### Application

Special feature	Gold-plated contacts	
Measuring element	1 x Pt 1000 + 1 x NTC; (thermally 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; (according to EN 50178 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
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Measuring/setting range		
Probe length L [mm]	100	
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)
MTTF [years]	154	
Note on approval	Including free 5-point calibration certificate.	
Mechanical data		
Materials	stainless steel (1.4404 / 316L); PEI; FKM	
Materials (wetted parts)	stainless steel (1.4404 / 316L)	
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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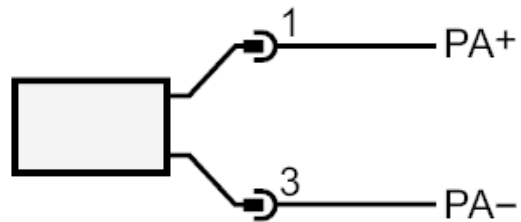


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### Electrical connection

#### Connection



Connector: 1 x M12; Contacts: gold-plated

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