

TA100 – Compact Temperature Transmitter



- ▶ Low cost
- ▶ Stainless steel housing
- ▶ Compact design
- ▶ Outputs programmable
- ▶ Process connections selectable
- ▶ Measuring range: -50°C...50°C and 0°C...200°C



Compact temperature transmitter TA100 equips with PT1000 or PT100 for temperature measuring. Output is processed to standard electrical signal. Metal housing; 4...20mA output; selectable process connection.

Specifications

Power Supply	10...30Vdc
Current Consumption	Same current output (2-wire 4...20mA)
2-wire Current Output	
Output	2-wire 4...20mA
Load RA(Ω)	$RA \leq (U_s - 10)V / 0.02A$
Linearity	$\leq \pm 0.5\%$ of F.S.
Sensor	PT1000 Class A / PT100
Accuracy	$\leq \pm 0.5\%$ of F.S.
Stability(Drift/Year)	$\leq \pm 0.25\%$ of F.S.
Temperature	
Medium(Measuring Range)	-50...50°C / 0...100°C / 0...150°C / 0...200°C
Ambient	-20...+85°C
Pressure Rating	200bar
Material	
Housing	304 stainless steel
Wetted Parts	316 stainless steel
Protection Class	IP65(solenoid plug); IP67(M12×1 plug)
Electrical Connection	M12×1 plug; solenoid plug

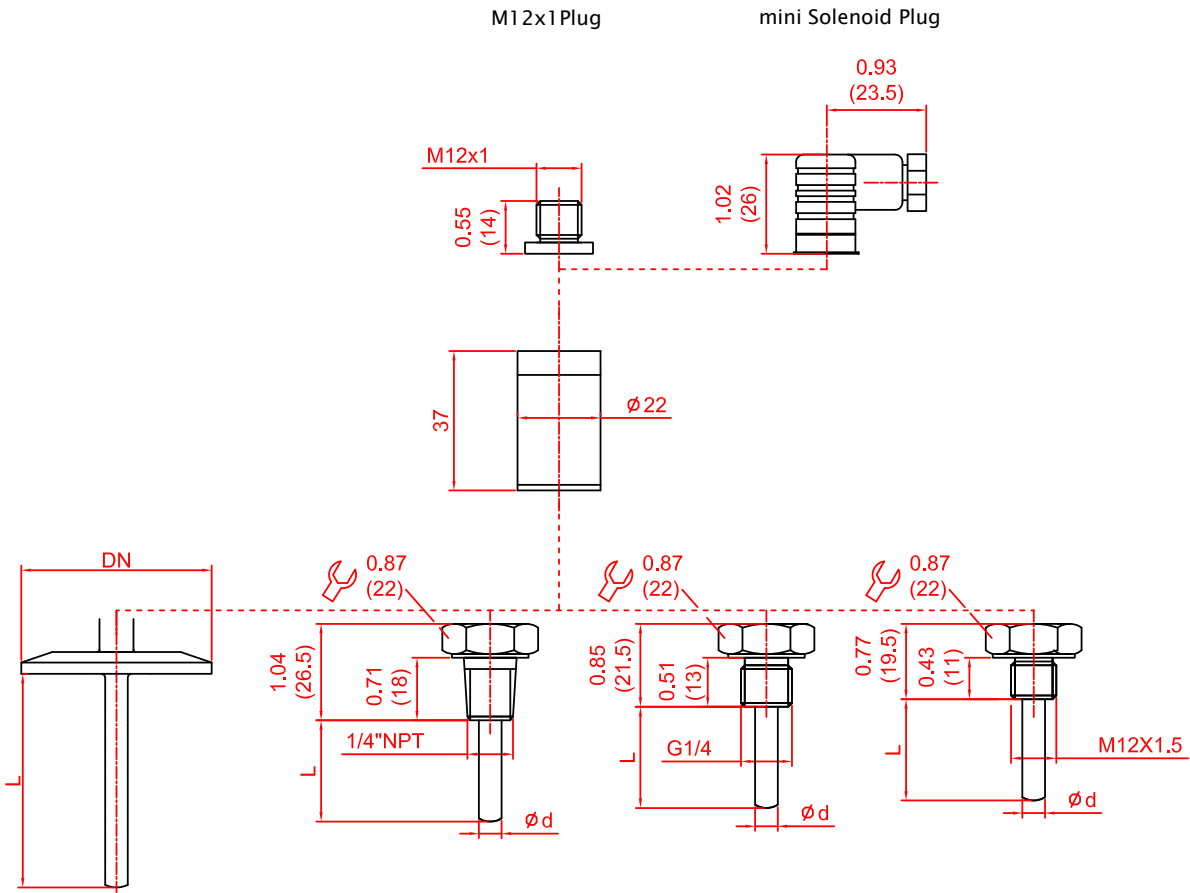
Applications

- ▶ Heating and cooling circuits
- ▶ Hydraulics and pneumatics
- ▶ Air condition technology
- ▶ Machinery manufacturing
- ▶ Construction automation
- ▶ Engineering

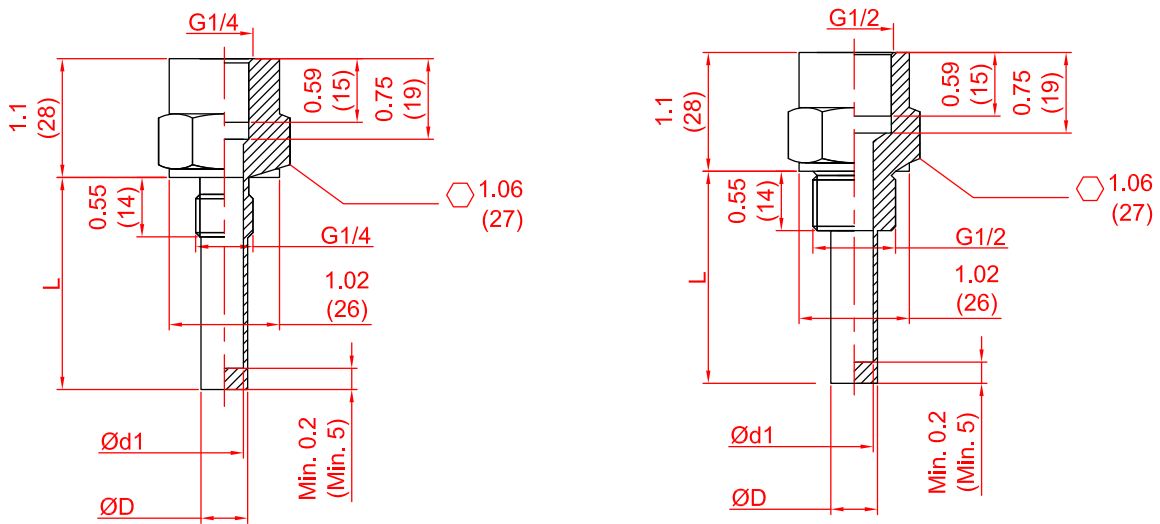
Wiring

Wiring		4...20mA (2-wire)								
<p>M12x1 Plug</p> <table border="1"> <thead> <tr> <th>Signal</th> <th>Plug</th> <th>Cable</th> </tr> </thead> <tbody> <tr> <td>U+</td> <td>1</td> <td>Brown</td> </tr> <tr> <td>U-</td> <td>3</td> <td>Blue</td> </tr> </tbody> </table>	Signal	Plug	Cable	U+	1	Brown	U-	3	Blue	
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Dimensions in inches (mm)



Screw-in thermowell dimensions



d	0.24 (6)	0.31 (8)
d1	0.28 (7)	0.35 (9)
D	0.35 (9)	0.43 (11)

Note: L - customized; d - probe diameter

Order Code

TA :	Temperature transmitter
100 :	Series# - compact
F :	Sanitary model
- :	Standard model
Measuring range :	C-50-50= -50...50°C C0-100= 0...100°C C0-150= 0...150°C C0-200= 0...200°C (with gooseneck tube)
Note: Use FAA-BBBB for Fahrenheit, in which AA, BBBB are lower and upper limit respectively. (measuring range customizable)	

TA	100/	F	C0-200/	02/	42	G12M	S	025	D06
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02 :	2-wire
42 :	4...20mA
Process connection	
T :	DN25 Tri-clamp connection (only for the sanitary)
G14M :	G1/4 male thread
G12M :	G1/2 male thread
N14M :	1/4"NPT male thread
S :	M12X1 5-pin plug
M :	mini solenoid plug
Probe length L	
025=	25mm (L≤500mm)
1"=	1inch (L≤20 inches)
Probe diameter d	
D04=	4mm
D06=	6mm
D08=	8mm

Special Order on Request

- ▶ Temperature measuring range
- ▶ Process connection
- ▶ Electrical connection
- ▶ For working condition with high pressure please use the probe diameter D06.