

RTA100 Temperature Transmitter



- ▶ Compact design
- ▶ Stainless steel housing
- ▶ Outputs programmable
- ▶ Selectable process connections
- ▶ Measuring range: -50°C to 50°C and 0°C to 200°C



RTA100 Temperature Transmitter equips with PT1000 or PT100 for temperature measuring Outputs are standard electrical signal.

Specifications

Power Supply	10 to 30VDC
Current Consumption	Same as current output (2-wire 4 to 20mA)
2-wire Current Output	
Output	2-wire 4 to 20mA
Load RA(Ω)	$RA \leq (U_s - 10)V / 0.02A$
Linearity	$\leq \pm 0.5\%$ of F.S.
Sensor	PT1000 or PT100 Class A
Accuracy	$\leq \pm 0.5\%$ of F.S.
Stability (Drift / Year)	$\leq \pm 0.25\%$ of F.S.
Temperature	
Medium (Measuring Range)	-50°C to 50°C and 0°C to 200°C

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Россия (495)268-04-70

Казахстан (772)734-952-31

Ambient	-20 to +85°C
Storage	-20 to +85°C
Pressure Rating	200bar
Material	
Housing	304 stainless steel
Wetted Parts	316L stainless steel
Protection Class	IP65(solenoid plug) / IP67 (M12×1plug)
Electrical Connection	M12 x1 plug (solenoid plug)

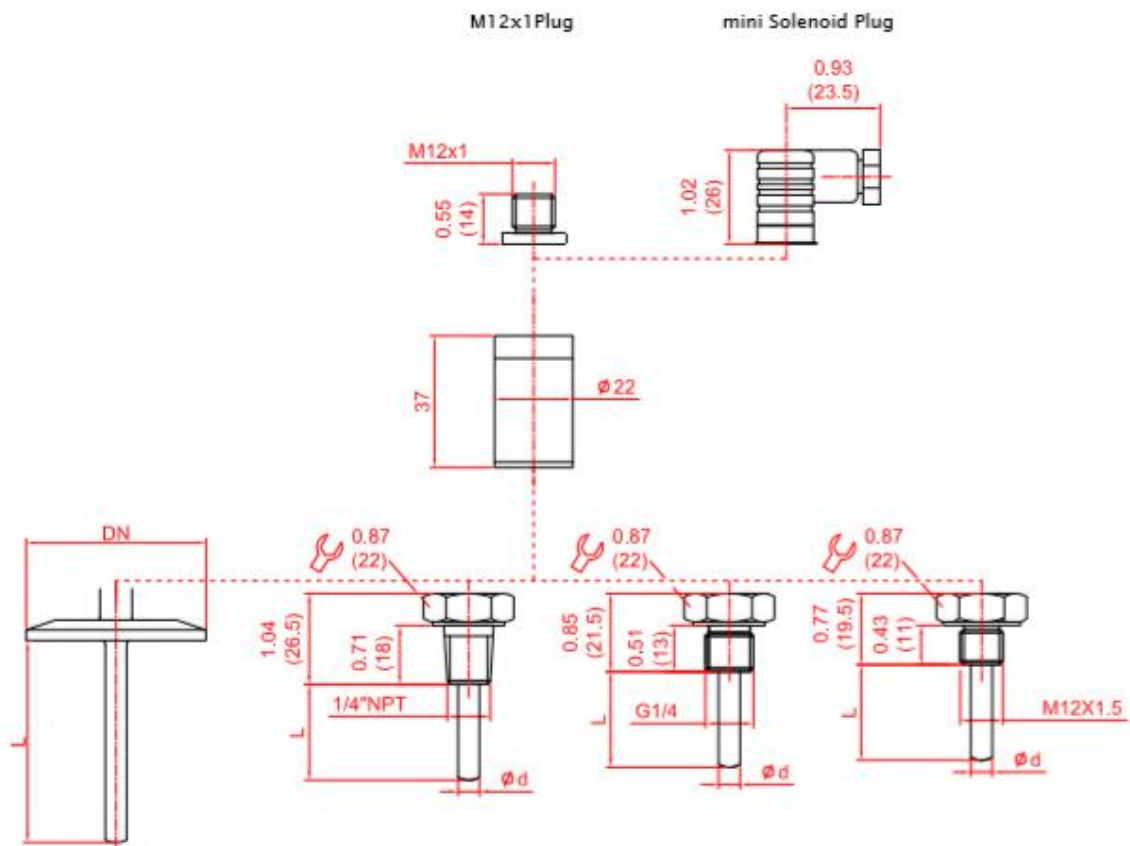
Applications

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

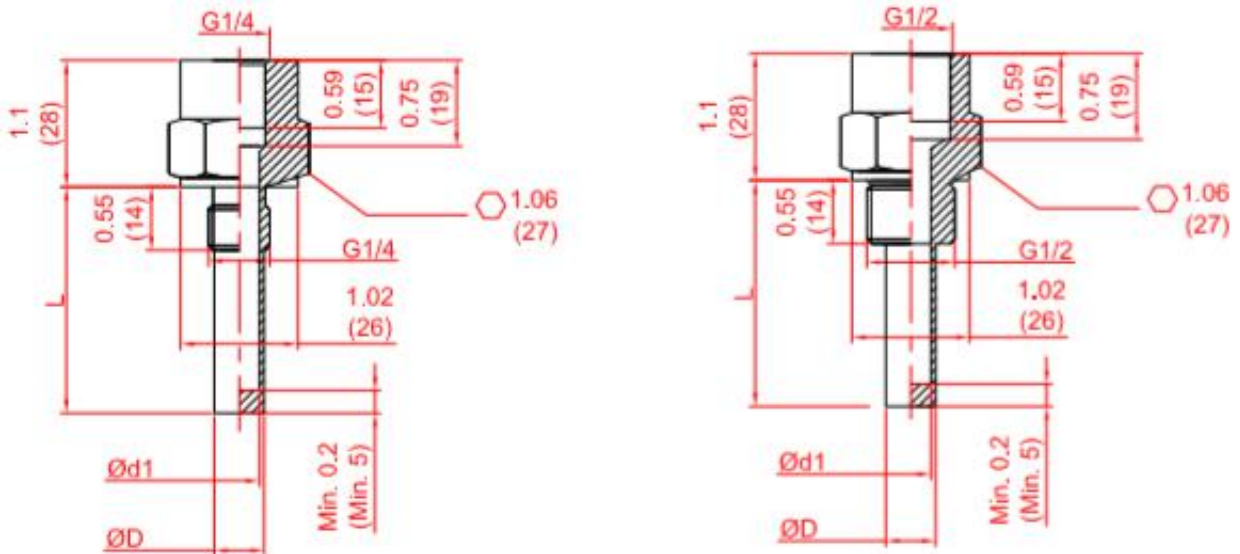
Wiring

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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Signal	Plug									
U+	1									
U-	2									

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

RTA :	Temperature transmitter.
100 :	Series Number – compact.
F :	Sanitary model.
S :	Standard model.
Measuring Range :	C-50-50 = -50 to 50°C. C0-100 = 0 to 100°C. - - - - - C0-200 = 0 to 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 to 20mA.
Process connection	
T :	DN25 Tri-clamp connection (only for the sanitary)
G12M :	G1/2 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 high pressure working condition, please used the probe diameter D06.

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