

PT100 or PT1000 Mineral Insulated RTD

- Available with PT100 or PT1000 thermoresistance sensing
- From -58°F to 932°F
- Up to 1,450 psi
- Rapid response times
- Mineral Insulated Cable probe with AISI 316L sheath
- Custom lengths and diameters
- Suitable for food



About

The P55 is a compact resistance temperature detector (RTD) equipped with a 3-pin M8 connector and a robust mineral-insulated (M.I.C.) construction. Suitable for precise temperature monitoring in demanding environments, it combines the reliability of a molded IP67-rated connector with fast response times and flexible configuration options. With a maximum operating temperature of 932°F, it is ideal for industrial and food-grade applications.

Applications

- ✓ Food & Beverage
- ✓ Generators
- ✓ Compressors
- ✓ HVAC-R
- ✓ CNC Machines
- ✓ Skid Packages
- ✓ Test Benches
- ✓ More

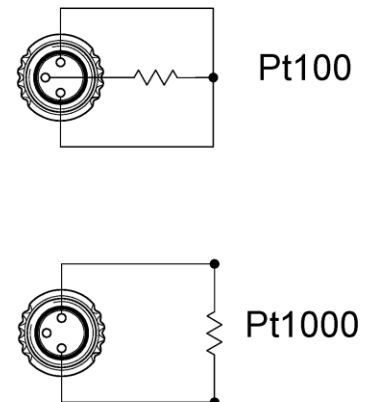
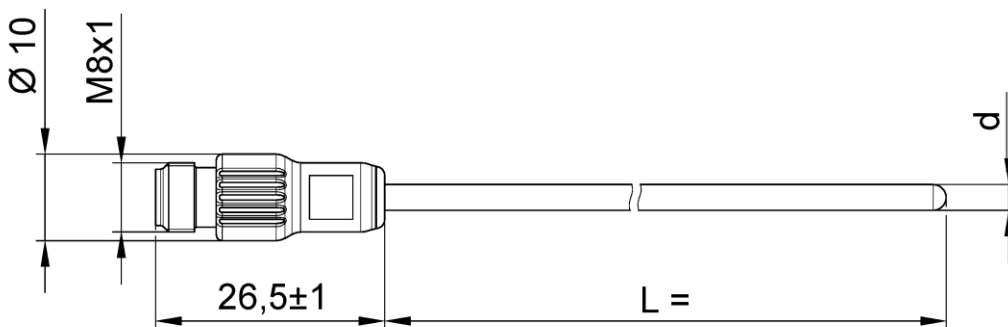
Build Your Part Number

Series P55

Example: P55S1L1D21A

Series	
P55	
Sensing Element - select one	
S1	PT100
S2	PT1000
Probe Length - select one	
L1	100mm
L2	150mm
L4	250mm
L5	350mm
LX	Custom - please specify under part number; Example: LX = 550mm (minimum length 50mm; over 100mm in steps of 50mm)
Probe Diameter - select one	
D2	2mm
D3	3mm
Response Time (test in water in accordance with IEC 751 to 63.2%)	
< 1.5 seconds	
< 3.5 seconds	
Accuracy Class accordance to IEC751 - select one	
1A	Class A Operating range -22 ... 572°F
2A	Class B Operating range -58 ... 932°F
Adjustable Process Connection allowing for Probe Length Insertion Variation - optional (select only if desired)	
5A	1/8" NPT male
5C	1/4" NPT male (only for 3mm probe diameter)
5X	3/8" NPT male (only for 3mm probe diameter)
5E	1/2" NPT male (only for 3mm probe diameter)
5M	G1/8" male
5N	G1/4" male (only for 3mm probe diameter)
5Y	G3/8" male (only for 3mm probe diameter)
5Q	G1/2" male (only for 3mm probe diameter)

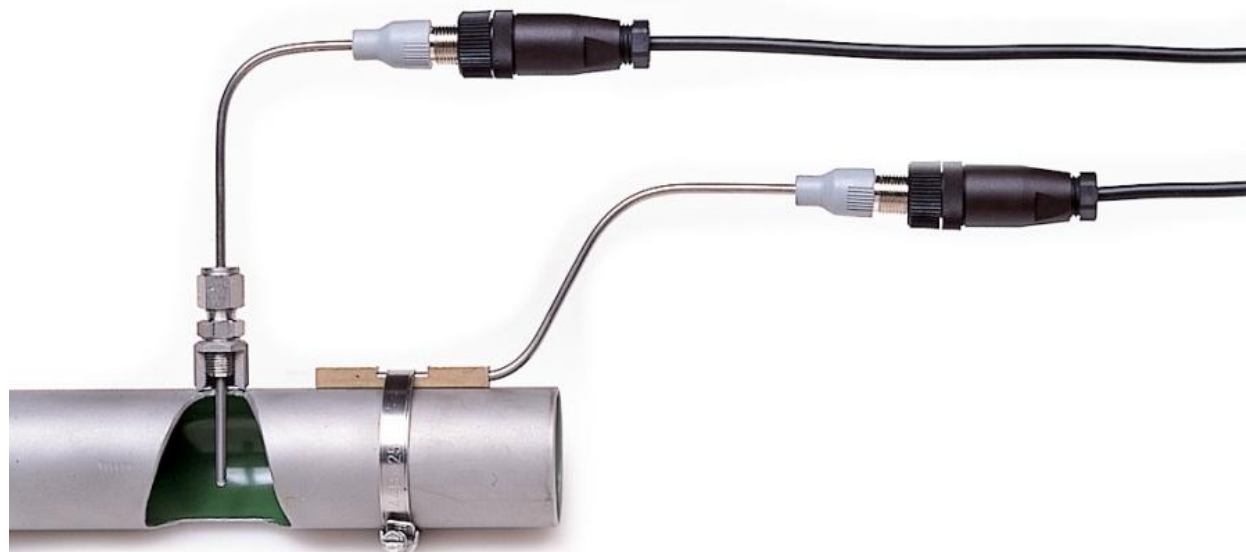
Dimensions (mm)



Technical Parameters

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Sensing element configuration	Single 3-wire (PT100) Single 2-wire (PT1000)
Output signal type	PT100 PT1000
Probe material	AISI 316L
Maximum Connector Temperature	248°F
M.I.C. minimum bending radius	3 X outer diameter
Insulation resistance	100 M Ω @ 1000 VDC
Electrical connector	M8x1, 3-pole
Housing material	Polyamide (molded)
Protection	IP67
Maximum working pressure	1,450 psi
Type of contact for food	Continuous
Contact food temperature range (max. contact probe length 39")	-40 ... 302°F



PAQUIN SENSORS

Paquin Sensors' product portfolio is designed to provide options to fit the most diverse range of specifications.

We collaborate with our customers to match the best product technologies with your unique application requirements.

Please [contact us](#) or call +1 (800) 831-8217 anytime to discuss your needs!