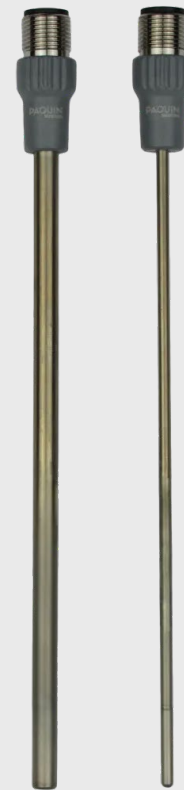


Mineral Insulated RTD with M12 for Food & Beverage and more

- Available with PT100 or PT1000 thermoresistance sensing
- Operates up to 1,450 psi
- From -58°F to 932°F
- Rapid response times
- AISI 316L stainless steel probe
- Custom lengths and diameters
- Suitable for food



About

The P54 is a multifunctional RTD with a 4-pin M12x1 connector and a compact mineral-insulated (M.I.C.) design. Featuring a durable IP67-rated over-molded connector, it offers high accuracy, rapid response times, and reliable performance in harsh industrial and food-processing environments. With a maximum operating temperature of 932°F, it provides a robust and flexible temperature monitoring solution.

Applications

- ✓ Food & beverage
- ✓ Generators
- ✓ Compressors
- ✓ HVAC-R
- ✓ CNC machines
- ✓ Skid packagers
- ✓ Test benches
- ✓ more

Build Your Part Number

Series P54

Example: P54S1L1D21A

Series	
P54	

Sensing Element - <i>select one</i>	
S1	PT100
S2	PT1000

Probe Length - <i>select one</i>	
L1	100mm
L2	150mm
L4	250mm
L5	350mm
L6	500mm
L9	750mm
L7	1000mm
LX	Custom - please specify under part number; Example: LX = XXXmm

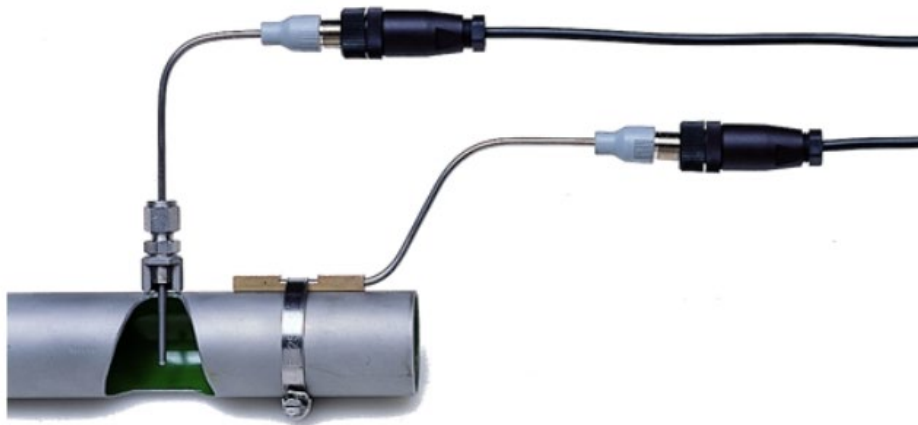
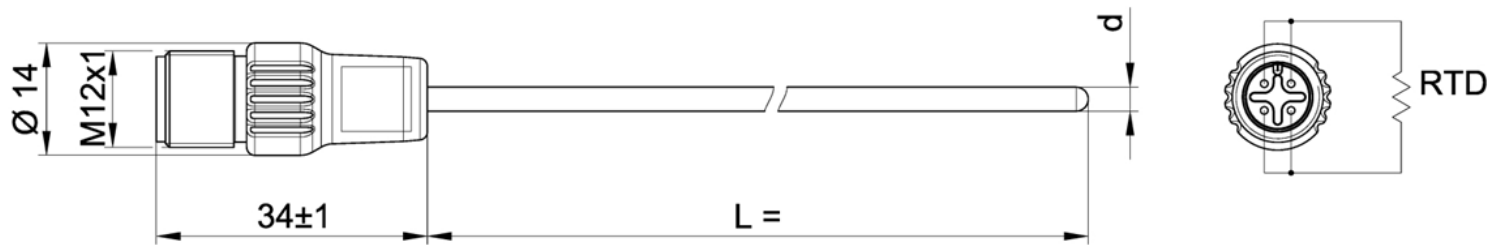
Probe Diameter - <i>select one</i>		Response Time <i>(test in water in accordance with IEC 751)</i>	
D2	2mm (only 250mm probe length)	Please ask	
D3	3mm	< 3,5 seconds	
D4	4.5mm	< 7 seconds	
D5	6mm	< 13 seconds	

Accuracy Class accordance to IEC751 - <i>select one</i>		
1A	Class A	Operating range -22 ... 572°F
1AA	Class AA (1/3 B)	Operating range 32 ... 302°F
2A	Class B	Operating range -58 ... 932°F

Technical Parameters

Technical Parameters	
Sensing element configuration	2-wire 3-wire 4-wire
Output signal type	PT100 PT1000
Probe material	AISI 316L
Temperature range probe	-58 ... 248°F
Temperature range housing	-40 ... 302°F
M.I.C. minimum bending radius	3 X outer diameter
Insulation resistance	100 M Ω@ 1000 Vdc
Electrical connector	M12x1, 4-pole
Housing material	Polyamide (molded)
Protection	IP67
Maximum working pressure	1,450 psi
Accuracy	Class A Class B

Dimensions (mm)



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!