

2-Wire Thermoplastic Rubber Probe

- Constructed with PT100, PT1000 or NTC thermistor sensing elements
- Response time less than 1 second
- Withstands up to 3750 Vac
- Operates between -40° and 221°F
- Molded TPE probe & cable
- Insulation resistance up to 100 MΩ at 1000 VDC
- Custom lengths
- Sealed against dust and resistant to water immersion and corrosive liquids



About

The P42 is a highly reliable, airtight 2-wire thermoplastic rubber probe designed for temperature sensing in demanding environments. Featuring PT100, PT1000, or NTC thermistor sensing elements, it offers exceptional precision and durability. With an IP68-rated design, it is suitable for long-term immersion in corrosive liquids, ensuring dependable performance in challenging industrial and environmental conditions.

Applications

- ✓ Generators
- ✓ Compressors
- ✓ HVAC-R
- ✓ CNC machines
- ✓ Skid Packagers
- ✓ Test Benches
- ✓ More

Build Your Part Number

Series P42
Example: P42S1P1E11A

Series	
P42	

Sensing Element - <i>select one</i>	
S1	PT100
S2	PT1000
S3	NTC R(77°F) = 10Kohm ±1%, beta(25/85)=3977
S4	NTC R(77°F) = 10Kohm ±1%, beta(25/85)=3435
S5	NTC R(77°F) = 10Kohm ±3%, beta(25/85)=3977
S6	NTC R(77°F) = 2.7Kohm ±1%, beta(25/85)=3977
S7	NTC R(77°F) = 10Kohm, beta(25/85)=3969, tolerance ±32.4°F (32-158°F)

Probe - <i>select one</i>	
P1	TPE molded 5mm X 100mm (see page 3)
P2	TPE molded housed in stainless steel tube 6mm X 50mm (see page 3)
P3	TPE molded housed in stainless steel tube 6mm X 100mm (see page 3)

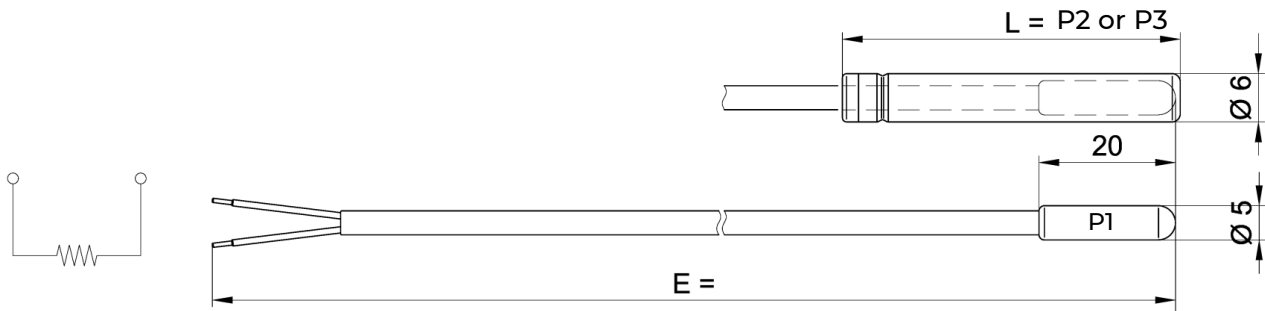
Cable + Probe Total Length - <i>select one</i>	
E1	1000mm (see page 3)
E2	2000mm (see page 3)
E3	Available from 500mm ... 100m Please specify under part number; Examples: E3 = XXXmm or E3 = XXm

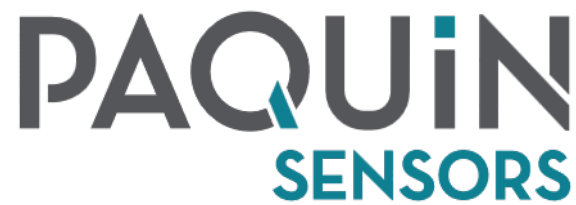
Accuracy Class accordance to IEC751 - <i>select one</i>	
1A	Class A (only PT1000)
2A	Class B (PT100 or PT1000)

Technical Parameters

Technical Parameters	
Sensing element	Single 2-wire
Operating temperature range	-40 ... 221°F
Response time (*) (*) test in water in accordance with IEC 751; time to reach 63.2% of temperature step	< 10 seconds
Cable	TPE (molded thermoplastic rubber) 87 shore A (black)
Conductors	2 conductor, copper tinned, twisted AWG 24 stranded
Conductor insulation	PP (polypropylene)
Conductor insulation identification	1 white, 1 black
Cable diameter	3.3mm
Cable working temperature	-40 ... 221°F (6h @302°F)
Insulation resistance	100 M Ω @ 1000 Vdc
Dielectric strength	3750 Vac
Probe material	TPE (molded)
TPE Probe dimension	5mm X 20mm
Protection	IP68

Dimensions (mm)





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!