



- **Tubular probe temperature sensor**
- **Temperature range -50 to +150° C**
- **Miniature design with 3 mm outer diameter**
- **PT100 and PT1000 available**
- **Different length options available**
- **Custom designs available**

Applications

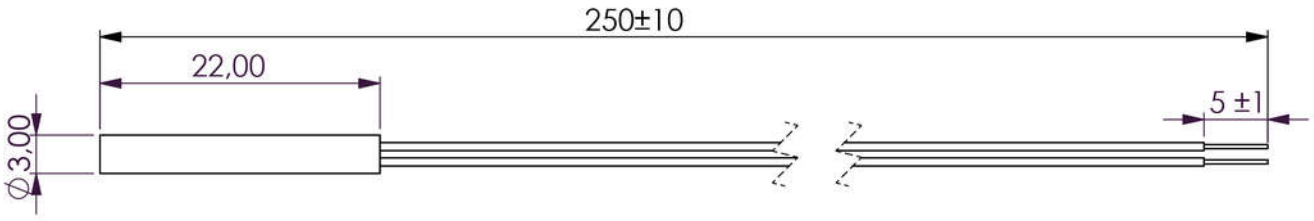
Heating/Cooling systems	Energy	Laboratory
HVAC	Industrial process	Medical Devices

Features

The LTP-TP2 tubular temperature probe is a 3 mm outer diameter stainless steel temperature probe which is available in multiple length options. The small diameter provides excellent response times whilst the use of the LTS1 PT100 and PT1000 Elements provides excellent performance characteristics combined with a cost-effective design. Those characteristics make the LTP-TP2 tubular temperature probe a great choice for medical or laboratory type equipment or other applications that require a good response time performance and high accuracy and stability.

Specification	DIN EN 60751 (according to IEC 751)		
Temperature range	-50 °C to +150 °C		
Nominal resistance	100 Ω at 0 °C 1000 Ω at 0 °C		
Long-term stability	< 0.04% at 1000 h at 130 °C		
Tolerance class	Class A IEC 60751 F0.15 Class B IEC 60751 F0.30	± deviations in °C 0.15 +0.002 x T 0.30 + 0.005 x T	Temperature range of validity in °C -30 to +150 -50 to +150
Response time in still liquid	t90 < 12 s t65 < 5 s		
Temperature coefficient	3850 ppm/K		
Insulation resistance	> 5 MΩ at 750 VDC		
Recommended applied current (self heating must be considered)	1 mA at 100 Ω 0.3 mA at 1000 Ω		
Construction			
Leads and insulation	AWG28 silver-plated copper wire with white PTFE insulation		
Probes	316 Stainless Steel, 3 mm outer diameter, 0.25 mm wall thickness		

Dimensions in mm



Ordering information

(Please use the characters in the chart below to construct your product code)

Example Code 810xxx - LTP - TP2 - SS - 22x3 - 25 - PT1000A

Probe Size	
22x3	22 mm x 3 mm OD (Standard)
50x3	50 mm x 3 mm OD
100x3	100 mm x 3 mm OD
150x3	150 mm x 3 mm OD
200x3	200 mm x 3 mm OD

Probe cable length in mm	
5	50
10	100
15	150
20	200
25	250 (Standard)
30	300
35	350
40	400
45	450
100	1000
x	Custom length

Thermistor Type	
PT100B	PT100 class B
PT1000A	PT1000 class A

Standard model number

810117-LTP-TP2-22-3-25-PT100B

810116-LTP-TP2-22-3-25-PT1000A

If you require a customized solution for your program contact our sales team.