



- ▶ Tubular probe temperature sensor
- ▶ Temperature range -50 to +180° C
- ▶ Miniature design with 1.6 mm outer diameter
- ▶ PT100 and PT1000 available
- ▶ Different wire length options available
- ▶ Custom designs available

## Applications

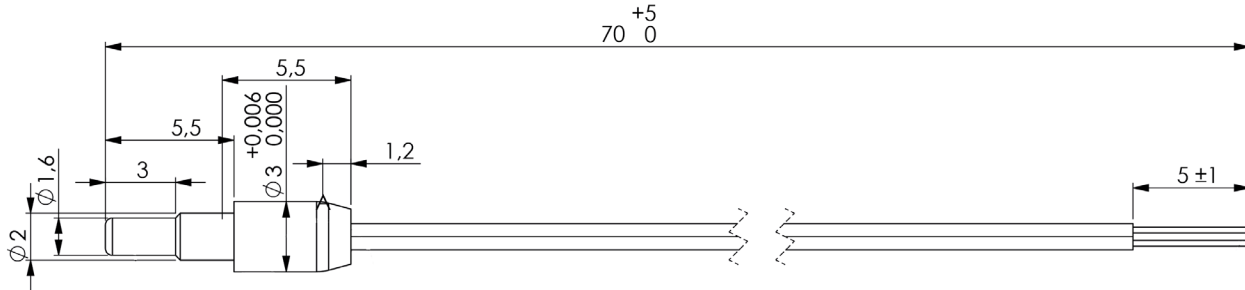
Energy                                      Laboratory  
 Industrial process                      Medical Devices

## Features

The LTP-TP3 temperature probe is using RTD temperature sensors in a miniature stainless steel housing with a tip of only 1.6 mm outer diameter. The base of the tube provides with the broadened diameter of 3 mm the capability to weld the sensor into the application. Miniature design and the use of high quality RTD sensors provide a solution with very fast response times whilst offering excellent media compatibility and an overall sensor accuracy of  $\pm 1,2$  °C over the whole temperature range of -50 to + 180°C. Those properties make the product ideal for medical and laboratory equipment, sensor manufacture or similar demanding applications.

Specification	DIN EN 60751 (according to IEC 751)		
Temperature range	-50 °C to +180 °C		
Nominal resistance	100 $\Omega$ at 0 °C 1000 $\Omega$ at 0 °C		
Long-term stability	< 0.04% at 1000 h at 130 °C		
Tolerance class	Class B IEC 60751 F0.30	$\pm$ deviations in °C  0.30 + 0.005 x T	Temperature range of validity in °C  -50 to +150
Response time in still liquid	t90 < 15 s t65 < 3 s		
Temperature coefficient	3850 ppm/K		
Insulation resistance	> 200 M $\Omega$ at 500 VDC		
Recommended applied current (self heating must be considered)	1 mA at 100 $\Omega$ 0.3 mA at 1000 $\Omega$		
Construction			
Leads and insulation	AWG30 CU/AG 7-strand wire silver plated with PTFE insulation, wire ends tinned		
Probes	1.4301 Stainless Steel, 1.6 mm outer diameter tip, with 3mm tubular OD for welding		

**Dimensions in mm**



**Ordering information**

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

Example Code      810xxx - LTP - TP3 - SS - 10.5x1.6 - 7 - PT1000B

Probe Size	Thermistor Type
10.5x1.6 10.5 mm x 1.6 mm OD (Standard)	PT100B PT100 class B
Probe cable length in mm	PT1000B PT1000 class B (Standard)
7 70 (Standard)	
10 100	
15 150	
20 200	
25 250	
30 300	
x Custom length	

Standard model number

810120-LTP-TP3-10.5x1.6-7-PT1000B

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