



- ▶ 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

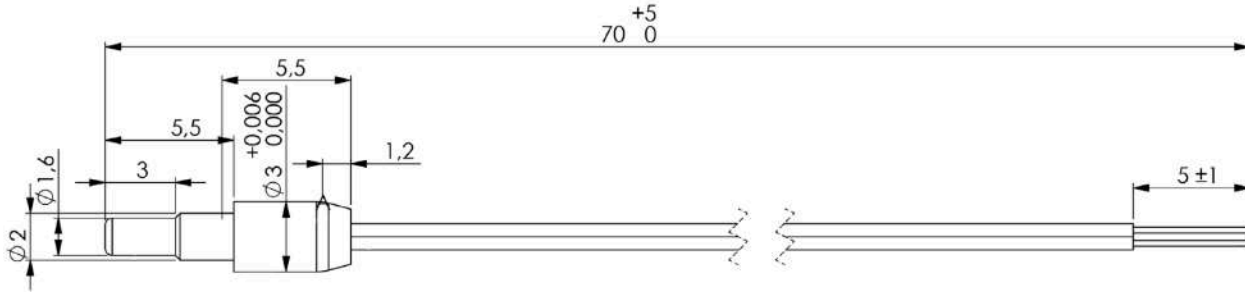
Energy Laboratory
 Industrial process Medical Devices

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 ± 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 Ω at 0 °C 1000 Ω at 0 °C		
Long-term stability	< 0.04% at 1000 h at 130 °C		
Tolerance class	Class B IEC 60751 F0.30	± 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 MΩ at 500 VDC		
Recommended applied current (self heating must be considered)	1 mA at 100 Ω 0.3 mA at 1000 Ω		
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	10.5x1.6 10.5 mm x 1.6 mm OD (Standard)	Thermistor Type	PT100B PT100 class B PT1000B PT1000 class B (Standard)														
Probe cable length in mm	<table border="1"> <tr><td>7</td><td>70 (Standard)</td></tr> <tr><td>10</td><td>100</td></tr> <tr><td>15</td><td>150</td></tr> <tr><td>20</td><td>200</td></tr> <tr><td>25</td><td>250</td></tr> <tr><td>30</td><td>300</td></tr> <tr><td>x</td><td>Custom length</td></tr> </table>	7	70 (Standard)	10	100	15	150	20	200	25	250	30	300	x	Custom length		
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Standard model number

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

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