

T30-XXXX PT100



BENEFITS

- PT100 1/3 DIN B
- No influence from the lead
- High measurement accuracy

APPLICATIONS

- Dry ice
- Freezers
- Water baths



DESCRIPTION

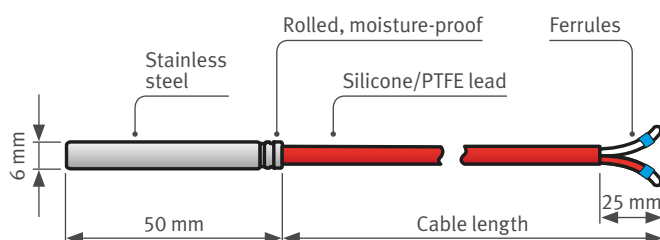
The T30 temperature sensors are resistance thermometers (Pt100 = positive measurement resistance), meaning that the resistance increases with increasing temperature. The sensors are compatible with the RMS-LOG-T30-L, RMS-LOG-T30-868 and RMS-LOG-T30-915 data loggers.

The data logger temperature range is limited to -40...70°C. The RMS temperature portfolio covers a wide range of applications, from the coldest


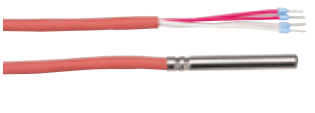
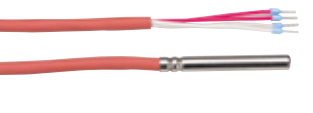
such as liquid nitrogen tanks and cryogenic freezers, refrigerators and cold rooms to hotter ones such as water baths, incubators, ovens and autoclaves.

Please see below for the values of each probe. This list is not exhaustive and other probes, diameters and cable lengths are available on request.

Dimensions



TECHNICAL INFORMATION

	T30-0001	T30-0003	T30-0006
			
Application	Cryotechnology, dry ice	Standard	Standard
IP protection class	IP68	IP65	IP65
Cable material	PTFE	Silicone	Silicone
Cable application range ¹	-196...+260 °C	-50...+200 °C	-50...+200 °C
Cable length (mm)	2000	2000	4000
Cable diameter (mm)	4	6	6
Connection	4-wire	4-wire	4-wire
Probe head material	VA4 1.4571	VA4 1.4571	VA4 1.4571
Probe length (mm)	50	50	50
Probe diameter (mm)	6	6	6
Sensor	PT100 1/3 DIN Class B	PT100 1/3 DIN Class B	PT100 1/3 DIN Class B
Sensor measurement range	-200...+600 °C	-200...+600 °C	-200...+600 °C
Probe application range	-196...+100 °C	-50...+100 °C	-50...+100 °C
Accuracy ², deviation according to IEC 60751			
-200 °C			±0.43 °C
-100 °C			±0.27 °C
0 °C			±0.10 °C
+100 °C			±0.27 °C
Deviation outside			
+100...+600 °C	Deviation = ±0.10 K + 0.00167 x t		

¹ Down to -80 °C possible, but the cable could break on movement.

² Accuracy is only guaranteed in the probe application range according to IEC 751. Applications outside the range can cause drift or damage. To improve the accuracy, it is possible to carry out an adjustment.