



SOLLATEK DATA SHEET NO:

10910541

# TEMPERATURE PROBE

10 K $\Omega$  NTC MOULDED TEMPERATURE SENSOR  
FOR SOLLATEK CONTROLLERS

## Description

The 10 K $\Omega$  NTC temperature probes provides accurate temperature measurement for all areas of the cooler including air, evaporator, condenser and ambient.

The temperature probes can be fitted to a number of Sollatek controllers / EMD and are supplied with different connectors to make connection to the controller easy.

## Features

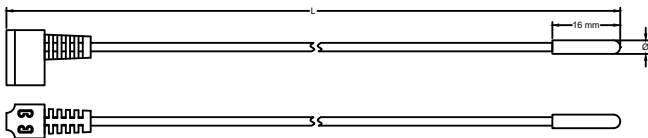
- 10 K $\Omega$ , NTC thermistor element for accurate measurement
- Robust, TPE Moulded probe cap
- Different cable lengths available from 1.2 m to 3.5 m
- Different connectors to fit to all Sollatek controllers and Energy Management Devices (EMD)

## Specification

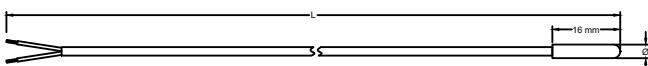
<b>Operating Temperature Range</b>	-40°C to + 85°C
<b>Probe</b>	NTC 10 k $\Omega$ thermistor
<b>Probe Tip</b>	TPE moulding
<b>Probe Diameter</b>	6 mm
<b>Cable</b>	2-core, 24 / 26 AWG double insulated
<b>Cable Length</b>	From 1.2 m to 3.5 m
<b>Colour</b>	White or Black
<b>IP Rating</b>	IP66 at probe end
<b>Connector</b>	C1: 0.11" female crimp terminal C2: 0.1" 2-way Header C3: Bare wire C4: 2.5 mm 3-way RAST

## Connector Type

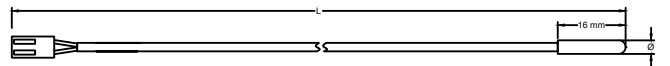
C1: 0.11" female crimp terminal



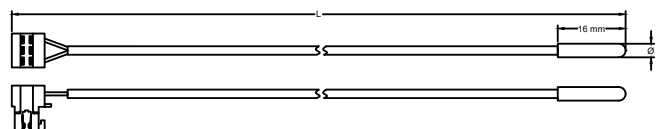
C3: Bare wire







C2: 0.1" 2-way header



C4: 2.5 mm 3-way RAST



## Controller Compatibility

 <p>FFA</p> <p>Connector: C2</p>	 <p>JEA</p> <p>Connector: C4</p>	 <p>GMCO</p> <p>Connector: C1</p>	 <p>FTB</p> <p>Connector: C1</p>
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## 10 kΩ Probe Electrical Specifications

Item	Symbol	Test Conditions	Min	Nominal	Max	Units
Resistance @ 25 °C	R <sub>25</sub>	T <sub>a</sub> = 25°C (±0.05) P <sub>T</sub> ≤ 0.1mW	9.90	10.00	10.10	KΩ
Resistance @ 85 °C	R <sub>85</sub>	T <sub>a</sub> = 85°C (±0.05) P <sub>T</sub> ≤ 0.1mW	-	1.07	-	KΩ
β value	β <sub>25/85</sub>	β = ln(R <sub>T1</sub> /R <sub>T2</sub> ) / (1/T1-1/T2)	3910.50	3950.00	3989.50	K
Dissipation factor (air)		T <sub>a</sub> = 25°C (±0.5)	5	-	-	MW/°C
Thermal time constant (water/oil)	τ	25°C → 50°C T1 = 25+[(50-25)×0.632] = 40.8°C	-	-	30	Sec
Insulation Resistance	-	500 VDC 5 seconds	100	-	-	MΩ
Voltage withstand	-	1800 VAC 2.0mA	60	-	-	Sec

## Stock Code and Description

Part number	Description	Length	Diameter	Colour	Connector Type
9TM16012WM	T Probe 6.0/1.2/16 10K WT24 C2G	1,200	6	White	C2
9TM16025BS	T Probe 6.0/2.5/16 10K BK24 C1A	2,500	6	Black	C1
9TM16025WS	T Probe 6.0/2.5/16 10K WT24 C1A	2,500	6	White	C1
9TM16030BM	T Probe 6.0/3.0/16 10K BK26 C2S	3,000	6	Black	C2
9TM16030BN	T Probe 6.0/3.0/16 10K BK24 C3A	3,000	6	Black	C3
9TM16035BS	T Probe 6.0/3.5/16 10K BK24 C1A	3,500	6	Black	C1
9TM16035WS	T Probe 6.0/3.5/16 10K WT24 C1A	3,500	6	White	C1
9TM16035BR	T Probe 6.0/3.5/16 10K BK24 C4A	3,500	6	Black	C4
9TM16035WR	T Probe 6.0/3.5/16 10K WT24 C4A	3,500	6	White	C4

For more information on the Sollatek product range visit [www.sollatek.com](http://www.sollatek.com)

