



SOLLATEK DATA SHEET NO:

10910542

TEMPERATURE PROBE

100 K Ω NTC MOULDED TEMPERATURE SENSOR FOR SOLLATEK CONTROLLER

Description

The 100 K Ω NTC temperature probes provides accurate temperature measurement for all areas of the cooler including air, evaporator, condenser and ambient.

The temperture 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

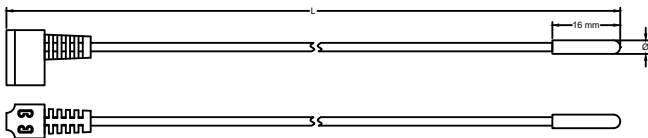
- 100 K Ω , NTC thermistor element for accurate measurement
- Robust, TPE Moulded probe cap
- Different cable lengths available from 0.5 m to 4.5 m
- Different connectors to fit to all Sollatek controllers and Energy Management Devices (EMD)

Specification

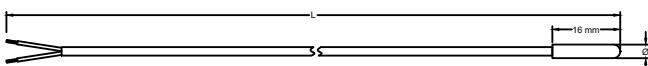
Operating Temperature Range	-40°C to + 85°C
Probe	NTC 100 k Ω thermistor
Probe Tip	TPE moulding
Probe Diameter	3.2, 5 or 6 mm
Cable	2-core, 24 / 26 / 28 AWG double insulated
Cable Length	From 0.1 m to 4.5 m
Colour	White or Black
IP Rating	IP66 at probe end
Connector	C1: 0.11" female crimp terminal C2: 0.1" 2-way Header C3: Bare wire C4: 2.5 mm 3-way RAST

Connector Type

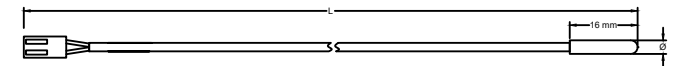
C1: 0.11" female crimp terminal



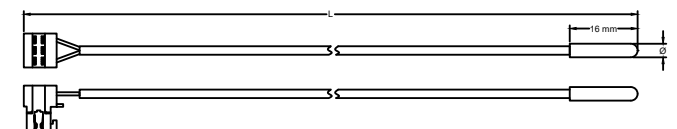
C3: Bare wire







C2: 0.1" 2-way header



C4: 2.5 mm 3-way RAST



Model Compatibility

<p>FCA</p>  <p>Connector: C1</p>	<p>FCR</p>  <p>Connector: C1</p>	<p>FCZ</p>  <p>Connector: C1</p>	<p>FDEx2-2BBW</p>  <p>Connector: C1</p>
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100 kΩ Probe Electrical Specifications

Item	Symbol	Test Conditions	Min	Nominal	Max	Units
Resistance @ 25 °C	R ₂₅	T _a = 25°C (±0.05) P _T ≤ 0.1mW	99.00	100.00	101.00	KΩ
Resistance @ 85 °C	R ₈₅	T _a = 85°C (±0.05) P _T ≤ 0.1mW	-	10.18	-	KΩ
β value	β _{25/85}	β = ln(R _{T1} /R _{T2}) / (1/T1-1/T2)	4019.40	4060.00	4100.60	K
Dissipation factor (air)		T _a = 25°C (±0.5)	2.5	-	-	MW/°C
Thermal time constant (water/oil)	τ	25 → 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
9TM23210BS	T Probe 3.2/1.0/16 100K BK28 C1A	1,000	3.2	Black	C1
9TM25005BS	T Probe 5.0/0.5/16 100K BK26 C1A	500	5	Black	C1
9TM25010BS	T Probe 5.0/1.0/16 100K WT26 C1A	1,000	5	Black	C1
9TM25030BS	T Probe 5.0/3.0/16 100K BK26 C1A	3,000	5	Black	C1
9TM25035BS	T Probe 5.0/3.5/16 100K BK26 C1A	3,500	5	Black	C1
9TM25045BS	T Probe 5.0/4.5/16 100K BK26 C1A	4,500	5	Black	C1
9TM26001WS	T Probe 6.0/0.1/16 100K BK24 C1A	100	6	White	C1
9TM26010BS	T Probe 6.0/1.0/16 100K BK24 C1A	1,000	6	Black	C1
9TM26015BS	T Probe 6.0/1.5/16 100K BK24 C1A	1,500	6	Black	C1
9TM26015WS	T Probe 6.0/1.5/16 100K WT24 C1A	1,500	6	White	C1
9TM26030BS	T Probe 6.0/3.0/16 100K BK24 C1A	3,000	6	Black	C1

For more information on the Sollatek product range visit www.sollatek.com

