



## MF52 Thermistor Datasheet

### General Description

The MF52 series thermistor is a pearl-shaped NTC thermistor coated in ethoxyline resin. The compact size facilitates the benefits of close tolerances and fast response.

The MF52 thermistor is designed to be interfaced to SMT data acquisition equipment.

#### Typical Applications

- Building science research
  - Building envelope temperature profiles
  - Correlation for temperature compensation for moisture content and RH
- Industrial applications
  - Heating, ventilation and air conditioning
  - Temperature regulation and measurement
  - Electronic thermometers
  - Liquid level sensing


### Features

- Indoor/Outdoor rated cable assembly
- Small size and fast response
- Compatible with SMT Industrial WiDAQ
- Long-term stability and reliability
- Excellent tolerance and interchangeability

### Ordering Information

MF52 Thermistor with 6' Stereo cable	104JT-02-006
MF52 Thermistor with 6' Leaded cable	104JT-01-006
MF52 Thermistor with 30' Leaded cable	104JT-01-030

Thermistor Characteristics	
Rated Resistance R25	10 to 250 KΩ
B Value (25/50°C)	4150K
Operating Temperature	-55° to 125°C
Tolerance	1%
Dissipation Constant	≥2.0mW/°C
Time Constant	≤7 seconds in still air

Approvals/Regulatory	
UL	UL Listed E240991
 UL 1434 (File E240991)	

No.	Thermistor	2-Pair cable	Function
1	Black	White/Blue	Temperature
2	Black	Blue	Temperature
3	NC	White/Orange	NC
4	NC	Orange	NC

**Table 1. Connection to Outdoor Cable Extension**

WiDAQ Input	CAT5 Cable	Function
17-24	Blue Pair	Temperature

**Table 2. Connection to Industrial WiDAQ**

**MF52 Thermistor Audio Cable**

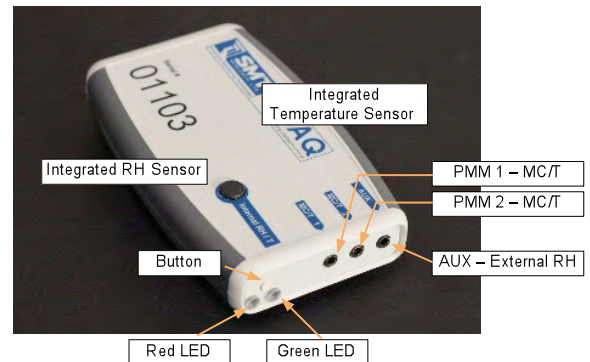


Figure 1. Insert into either WiDAQ MC/T Port

No.	Audio Jack	Function
1	D (Green)	Thermistor 1
2	A (Red)	Thermistor 1
3	B (Black)	Thermistor 2*
4	C (Yellow)	Thermistor 2*

**Table 3. Cable Pin-out Audio Cable**

\*Dual thermistor cable available upon request

