# General Purpose Thermistor Probe with PFA lead - 3mm tube diameter, 50mm tube length



Labfacility are the UK's leading manufacturer of Temperature Sensors, Thermocouple Connectors and associated Temperature Instrumentation and stockings of Thermocouple Cables.  The Company has been trading since 1971 and is ISO9001 accredited.

LABFACILITY
TEMPERATURE & PROCESS TECHNOLOGY

# Datasheet

2-wire 10K NTC thermistor housed in a stainless-steel sheath with a temperature range of -50 to +150°C, is a versatile temperature sensing device.

The stainless-steel sheath provides durability and protection, making this thermistor ideal for a wide range of applications, from industrial processes to consumer electronics and scientific research.

**Key Features:**

Resistance Value: 10K ohms

Type: NTC (Negative Temperature Coefficient) thermistor, meaning its resistance decreases as the temperature increases.

Temperature Range: Capable of accurately measuring temperatures from -50°C to +150°C.

Wiring: 2-wire configuration for simple connectivity.

Design: Encased in a stainless-steel sheath for enhanced durability and protection against harsh environments

**Applications:**

**Environmental Monitoring**

**HVAC Systems**
: Monitors air temperature to regulate heating, ventilation, and air conditioning systems efficiently.

**Climate Control Devices**
: Ensures accurate temperature readings in smart thermostats and other climate control devices.

**Industrial Processes**

**Equipment Monitoring**
: Ensures the safe operation of machinery by monitoring and controlling operating temperatures.

**Process Control**
: Maintains precise temperatures in manufacturing processes, such as in chemical production, food processing, and material fabrication.

**Specifications**

## Specifications

| | |
|---|---|
| **Product Code** | XE-9841-001 |
| **General Description** | 2-wire 10K NTC thermistor housed in a stainless steel sheath |
| **Thermistor** | 10K NTC Thermistor |
| **BETA 25/85** | 3977K |
| **Probe Diameter** | 3mm |
| **Cable Length** | 2M |
| **Cable Type** | PTFE insulated twisted leads |
| **Core / Strands** | 7/0.2mm |
| **Cable Termination** | Bare Tails |
| **Max. Temperature** | +150°C |
| **Min. Temperature** | -50°C |
| **Accuracy** | +/- 0.2K (over 0-70°C) |
| **Length** | 50mm |
| **Number of Wires** | 2 |
| **Series** | Thermistor Probes 10k |