

# Fluke 51 II Handheld Digital Probe Thermometer



## Key features

- Single Input digital thermometer for lab, QA, process calibration, food safety and HVAC
- Measures J, K, T, and E-type thermocouples
- Presents results in °C, °F, or Kelvin (K) on a large backlit display
- Includes a relative time clock on MIN, MAX, and AVG to provide a time reference for major events

## Product overview: Fluke 51 II Handheld Digital Probe Thermometer

The Fluke 51 II single input digital thermometer delivers fast response with laboratory accuracy (0.05% + 0.3°C). You can use the 51 II to measure contact temperature on motors, insulation, breakers, pipes, corroded connections, liquids, and wires with industrial standard J, K, T, or E-type thermocouple temperature sensors. The user friendly-front panel and large, backlit display make it easy to view results. And the sleep mode feature preserves battery life to give you a typical thousand hours of operation.

### Other useful features:

- Easy-to-access battery door that allows replacing the battery without breaking the calibration seal
- Comes with splash- and dust-resistant case protected by an impact-absorbing holster and a three-year warranty
- Powered by three, standard AA batteries -30-

- Includes an electronic offset function that compensates for thermocouple errors to maximize overall accuracy
- Handles temperatures up to 900°C (1600°F)
- Provides a user-friendly front panel that is easy to set up and operate
- Offers sleep mode to increase battery life; 1000-hour battery life typical
- Offers optional ToolPak accessory to hang the thermometer from any metal object (with the rare earth magnet) or secure around a pipe (with hook-and-loop straps) for hands-free operation

## Specifications: Fluke 51 II Handheld Digital Probe Thermometer

Specifications		
Temperature accuracy	<b>Above -100°C</b>	J, K, T, E, and N-type: $\pm[0.05\% + 0.3^{\circ}\text{C}]^1$
		R and S-type: $\pm[0.05\% + 0.4^{\circ}\text{C}]^1$
	<b>Below -100°C</b>	J, K, E, and N-types: $\pm[0.20\% + 0.3^{\circ}\text{C}]^1$
		T-type: $\pm[0.50\% + 0.3^{\circ}\text{C}]$
Temperature	<b>J-type</b>	-210°C to 1200°C
	K-type	-200°C to 1372°C
	T-type	-250°C to 400°C
	E-type	-150°C to 1000°C
	N-type	-200°C to 1300°C <sup>1</sup>
	R and S-type	0°C to 1767°C <sup>1</sup>
Temperature scale	ITS-90	
Applicable standards	NIST-175	
Display resolution	0.1°C, 0.1 K < 1000	
	1°C, 1 K ≥ 1000	
1. Only the Fluke Models 53 II B and 54 II B thermometers are capable of measuring N, R, and S-type thermocouples.		
Environmental Specifications		
Operating temperature	-10°C to 50°C	
Storage temperature	-40°C to 60°C	
Humidity (without condensation)	0% to 90%; 0°C to 35°C	
	0% to 70%; 0°C to 50°C	
Safety Specifications		
Overvoltage category	CSA C22.2 No. 1010.1 1992; EN 61010 Amendments 1,2	
Agency approvals	CE, CSA, TÜV (pending)	
Mechanical and General Specifications		
Size (L x W x D)	173 x 86 x 38 mm	
Weight	400 g	
Batteries	3 AA batteries; typical 1000-hour life	

## Ordering information



### **Fluke 51 II**

Fluke 51 II Single Input Digital Thermometer

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Includes:

- Impact absorbing holster
  - One 80PK-1 bead probe thermocouple
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### **Fluke 51 II CAL**

Fluke 51 II Handheld Digital Probe Thermometer, with a traceable certificate of calibration with data from Fluke

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Includes:

- Impact absorbing holster
  - One 80PK-1 bead probe thermocouple
  - A traceable certificate of calibration with data from Fluke
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### **R-FLUKE-51-2 60HZ**

Fluke 51 II Handheld Digital Probe Thermometer, fully reconditioned to original factory specifications. Includes Fluke's 3 year product warranty.

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**Fluke Europe B.V.**

P.O. Box 1186  
5602 BD Eindhoven  
The Netherlands  
[www.fluke.com/en](http://www.fluke.com/en)

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**For more information call:**

In Middle East/Africa  
+31 (0)40 267 5100

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