

**TECHNICAL DATA** 

# 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  $(0.05\% + 0.3^{\circ}C)$ . 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

Above -100°C	J, K, T, E, and N-type: ±[0.05% + 0.3°C] <sup>1</sup>
	R and S-type: ±[0.05% + 0.4°C] <sup>1</sup>
Below -100°C	J, K, E, and N-types: ±[0.20% + 0.3°C] <sup>1</sup>
	T-type: ±[0.50% + 0.3°C]
J-type	-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°C1
ITS-90	
NIST-175	
0.1°C, 0.1 K < 1000	
1°C, 1 K ≥ 1000	
Sthermometers are capa	able of measuring N, R, and S-type thermocouples.
-10°C to 50°C	
-40°C to 60°C	
0% to 90%; 0°C to 35°C	
0% to 70%; 0°C to 50°C	
CSA C22.2 No. 1010.1 1992; EN 61010 Amendments 1,2	
CE, CSA, TÜV (pending)	
s	
173 x 86 x 38 mm	
400 g	
3 AA batteries; typical 1000-hour life	
	Below -100°C  J-type  K-type  T-type  E-type  N-type  R and S-type  ITS-90  NIST-175  0.1°C, 0.1 K < 1000  1°C, 1 K ≥ 1000  Bthermometers are capa  -10°C to 50°C  -40°C to 60°C  0% to 90%; 0°C to 35°C  0% to 70%; 0°C to 50°C  CSA C22.2 No. 1010.1  CE, CSA, TÜV (pending  s  173 x 86 x 38 mm





## **Ordering information**



#### Fluke 51 II

Fluke 51 II Single Input Digital Thermometer

#### Includes:

- Impact absorbing holster
- One 80PK-1 bead probe thermocouple

