TECHNICAL DATA

Fluke 52 II Dual Probe Digital Thermometer

Key features

- Dual-input digital thermometer for lab, QA, process calibration, food safety and HVAC
- Shows any combination of T1, T2, T1-T2, plus MIN, MAX, or AVG on the large backlit dual display
- Features fast response and laboratory accuracy (0.05% + 0.3°C)
- Includes a relative time clock on MIN, MAX, and AVG to provide a time reference for major events

Product overview: Fluke 52 II Dual Probe Digital Thermometer

The Fluke 52 II dual-input digital thermometer delivers fast response with laboratory accuracy (0.05% + 0.3°C). You can use the 52 II to measure two contact temperature inputs simultaneously 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 from both inputs in multiple ways. 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-
- Features an electronic offset function that compensates for thermocouple errors to maximize overall accuracy
- Measures J, K, T, and E-type thermocouples
- Handles temperatures up to 900°C (1600°F)
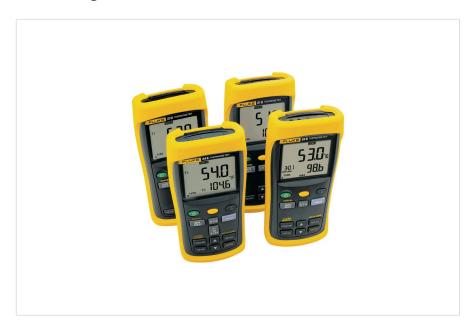- Presents results in °C, °F, or Kelvin (K)

- 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 52 II Dual Probe Digital Thermometer

Specifications			
Temperature accuracy	Above -100°C	J, K, T, E, and N-type: ±[0.05% + 0.3°C][1]	
		R and S-type: ±[0.05% + 0.4°C][1]	
	Below -100°C	J, K, E, and N-types: ±[0.20% + 0.3°C][1]	
		T-type: ±[0.50% + 0.3°C]	
Temperature	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[1]	
	R and S-type	0°C to 1767°C[1]	
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		

![FLUKE logo]

Ordering information

Fluke 52 II

Fluke 52 II Dual Input Digital Thermometer

Includes:

- Impact absorbing holster
- Two 80PK-1 beaded probe thermocouples

Fluke 52 II CAL

Fluke 52 II Dual Probe Digital Thermometer, with a traceable certificate of calibration with data from Fluke

Includes:

- Impact absorbing holster
- Two 80PK-1 beaded probe thermocouples
- A tracable certificate of calibration with data from Fluke

R-FLUKE-52-2 60HZ

Fluke 52 II Dual Probe Digital Thermometer, fully reconditioned to original factory specifications. Includes Fluke's 3 year product warranty.

https://www.fluke.com/en-us/product/temperature-measurement/ir-thermometers/fluke-52-ii