



Fluke 50 Series II products features:

- Relative time clock on MIN, MAX, and AVG provides a time reference for major events
- Electronic Offset function allows compensation of thermocouple errors to maximize overall accuracy
- Measures J, K, T, and E-types of thermocouples
- Readout in °C, °F, or Kelvin (K)
- Splash and dust resistant case protected by impact absorbing holster
- User-friendly front panel is easy to set up and operate
- Sleep mode increases battery life; typical 1000-hour battery life
- Battery door allows easy battery replacement without breaking the calibration seal
- Optional ToolPak accessory allows the thermometer to hang from any metal object (with the rare earth magnet) or secure around a pipe (with hook-and-loop straps) for hands-free operation.
- 3 year warranty

The Fluke 53 II B and 54 II B include all the features listed above plus:

- Large backlit dual display shows any combination of T1, T2 (52 and 54 only), T1-T2 (52 and 54 only), plus MIN, MAX, or AVG.
- Additional thermocouple types R, S, and N (for a total of 7 different types)
- Recall function allows logged data to be easily reviewed on the meter display
- USB communication port allows data to be exported to optional FlukeView Forms® Temperature PC software for further analysis and graphing
- Data Logging up to 500 points of data with user adjustable recording interval

Specifications	
Temperature accuracy	<p>Above -100 °C: J, K, T, E, and N-type: $\pm[0.05\% + 0.3^{\circ}\text{C}]^*$ R and S-type: $\pm[0.05\% + 0.4^{\circ}\text{C}]^*$</p> <p>Below -100 °C: J, K, E, and N-types: $\pm[0.20\% + 0.3^{\circ}\text{C}]^*$</p>

	T-type: $\pm[0.50\% + 0.3^{\circ}\text{C}]$
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 * R and S-type: 0 °C to 1767 °C *
Temperature scale	ITS-90
Applicable standards	NIST-175
Display Resolution	0.1 °C, 0.1 K < 1000 1 °C, 1 K \geq 1000
Note	* 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 & General Specifications	
Size	173 mm L x 86 mm W x 38 mm
Weight	400 g
Batteries	3 AA batteries; typical 1000-hour life