

FLUKE.

Fluke 50 Series II Thermometers



Laboratory accuracy. Wherever you go.

The new Fluke 50 Series II contact thermometers offer fast response and laboratory accuracy (0.05% + 0.3°C) in a rugged, handheld test tool.

Technical Data

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 Series II and 54 Series II 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
- IR 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	Above -100 °C:	J, K, T, E, and N-type: $\pm[0.05\% + 0.3^{\circ}\text{C}]^*$ R and S-type: $\pm[0.05\% + 0.4^{\circ}\text{C}]^*$
	Below -100 °C:	J, K, E, and N-types: $\pm[0.20\% + 0.3^{\circ}\text{C}]^*$ T-type: $\pm[0.50\% + 0.3^{\circ}\text{C}]$
Temperature range	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 ≥ 1000
Note	*	Only the Fluke Models 53 II and 54 II 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