

Fluke 50 Series II Thermometers

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: $\pm[0.20\% + 0.3^{\circ}\text{C}]^*$ T-type: $\pm[0.50\% + 0.3^{\circ}\text{C}]$</p>
Temperature Range	<p>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 *</p>
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