

Fluke 50 Series II Thermometers

| 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 | 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 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 |