

TECHNICAL DATA

54 II B Data Logging Thermometer with Dual Input



Key features

- 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
- Recall function allows logged data to be easily reviewed on the meter display
- Infrared 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
- 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, E, R, S, and N-type 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

Product overview: 54 II B Data Logging Thermometer with Dual

Input

Laboratory accuracy. Wherever you go

Fluke 54 II B dual input digital thermometer can log up to 500 points of data to internal memory. Fast response and laboratory accuracy (0.05% + 0.3 °C). Take contact temperature for checking motors, insulation, breakers, pipes, corroded connections, liquids, and wires with industrial standard J, K, T, E, N, R, and S type thermocouple (temperature sensors).

Specifications: 54 II B Data Logging Thermometer with Dual Input

| General Specifications | | |
|--|--|---|
| Temperature accuracy | Above -100°C | J, K, T, E, and N-type: $\pm[0.05\% + 0.3^{\circ}\text{C}]^1$ |
| | | R and S-type: $\pm[0.05\% + 0.4^{\circ}\text{C}]^1$ |
| | Below -100°C | J, K, E, and N-types: $\pm[0.20\% + 0.3^{\circ}\text{C}]^1$ |
| | | 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 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 | |



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| Batteries | 3 AA batteries; typical 1000-hour life |
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Ordering information



Fluke 54 II

Fluke 54 II Dual Input Digital Thermometer

Includes:

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



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