

# Fluke 52 II Dual Probe Digital Thermometer



## Key features

- Dual-input digital thermometer for lab, QA, process calibration, food safety and HVAC
- Shows any combination of T1, T2, T1-T2, plus MIN, MAX, or AVG on the large backlit dual display
- Features fast response and laboratory accuracy (0.05% + 0.3°C)
- Includes a relative time clock on MIN, MAX, and AVG to provide a time reference for major events

## Product overview: Fluke 52 II Dual Probe Digital Thermometer

The Fluke 52 II dual-input digital thermometer delivers fast response with laboratory accuracy (0.05% + 0.3°C). You can use the 52 II to measure two contact temperature inputs simultaneously on motors, insulation, breakers, pipes, corroded connections, liquids, and wires with industrial standard J, K, T, or E-type thermocouple temperature sensors. The user friendly-front panel and large, backlit display make it easy to view results from both inputs in multiple ways. And the sleep mode feature preserves battery life to give you a typical thousand hours of operation.

### Other useful features:

- Easy-to-access battery door that allows replacing the battery without breaking the calibration seal
- Comes with splash- and dust-resistant case protected by an impact-absorbing holster and a three-year warranty
- Powered by three, standard AA batteries -30-
- Features an electronic offset function that compensates for thermocouple errors to maximize overall accuracy
- Measures J, K, T, and E-type thermocouples

- Handles temperatures up to 900°C (1600°F)
- Presents results in °C, °F, or Kelvin (K)
- Provides a user-friendly front panel that is easy to set up and operate
- Offers sleep mode to increase battery life; 1000-hour battery life typical
- Offers optional ToolPak accessory to hang the thermometer from any metal object (with the rare earth magnet) or secure around a pipe (with hook-and-loop straps) for hands-free operation

## Specifications: Fluke 52 II Dual Probe Digital Thermometer

| Specifications   |  |   |
|--|--|---|
| Temperature accuracy   | <b>Above -100°C</b>                                | J, K, T, E, and N-type: $\pm[0.05\% + 0.3^{\circ}\text{C}]^1$ |
|  |  | R and S-type: $\pm[0.05\% + 0.4^{\circ}\text{C}]^1$           |
|  | <b>Below -100°C</b>                                | 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  | <b>J-type</b>                                      | -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 <sup>1</sup>                                 |
|  | R and S-type                                       | 0°C to 1767°C <sup>1</sup>                                    |
| 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  |   |
| Batteries  | 3 AA batteries; typical 1000-hour life             |   |

## Ordering information



### **Fluke 52 II**

Fluke 52 II Dual Input Digital Thermometer

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Includes:

- Impact absorbing holster
  - Two 80PK-1 beaded probe thermocouples
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### **Fluke 52 II CAL**

Fluke 52 II Dual Probe Digital Thermometer, with a traceable certificate of calibration with data from Fluke

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Includes:

- Impact absorbing holster
  - Two 80PK-1 beaded probe thermocouples
  - A traceable certificate of calibration with data from Fluke
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### **R-FLUKE-52-2 60HZ**

Fluke 52 II Dual Probe Digital Thermometer, fully reconditioned to original factory specifications. Includes Fluke's 3 year product warranty.

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