

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   | <b>Above -100u00b0C</b>                            | J, K, T, E, and N-type: $u00b1[0.05\% + 0.3u00b0C]^1$ |
|  |  | R and S-type: $u00b1[0.05\% + 0.4u00b0C]^1$           |
|  | <b>Below -100u00b0C</b>                            | J, K, E, and N-types: $u00b1[0.20\% + 0.3u00b0C]^1$   |
|  |  | T-type: $u00b1[0.50\% + 0.3u00b0C]$                   |
| Temperature  | <b>J-type</b>                                      | -210u00b0C to 1200u00b0C                              |
|  | K-type   | -200u00b0C to 1372u00b0C                              |
|  | T-type   | -250u00b0C to 400u00b0C                               |
|  | E-type   | -150u00b0C to 1000u00b0C                              |
|  | N-type   | -200u00b0C to 1300u00b0C <sup>1</sup>                 |
|  | R and S-type                                       | 0u00b0C to 1767u00b0C <sup>1</sup>                    |
| Temperature scale  | ITS-90   |   |
| Applicable standards   | NIST-175   |   |
| Display resolution   | 0.1u00b0C, 0.1 K < 1000                            |   |
|  | 1u00b0C, 1 K u2265 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  | -10u00b0C to 50u00b0C                              |   |
| Storage temperature  | -40u00b0C to 60u00b0C                              |   |
| Humidity (without condensation)  | 0% to 90%; 0u00b0C to 35u00b0C                     |   |
|  | 0% to 70%; 0u00b0C to 50u00b0C                     |   |
| Safety Specifications  |  |   |
| Overvoltage category   | CSA C22.2 No. 1010.1 1992; EN 61010 Amendments 1,2 |   |
| Agency approvals   | CE, CSA, Tu00dcV (pending)                         |   |
| Mechanical and General Specifications  |  |   |
| Size (L x W x D)   | 173 x 86 x 38 mm                                   |   |
| Weight   | 400 g  |   |



|         |                                      |
|---------|--------------------------------------|
| Baeries | 3 AA baeries; typical 1000-hour life |
|---------|--------------------------------------|

## 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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**Fluke Corporation**

PO Box 9090, Everett, WA 98206 U.S.A.

**For more information call:**

In the U.S.A. (800) 443-5853

In Europe/M-East/Africa +31 (0)40 267 5100

In Canada (800)-36-FLUKE

From other countries +1 (425) 446-5500

**Fluke Electronics (Malaysia) Sdn Bhd**

Suite D-3A-4, Block D

SouthGage Commercial Centre, No2

Jalan Dua Off Jln Chan Sow Lin

55200 KL

Malaysia

Email: [info.asean@fluke.com](mailto:info.asean@fluke.com)

[www.fluke.com/my](http://www.fluke.com/my)

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