

# Fluke 50 Series II Thermometers



**FLUKE®**

**Laboratory accuracy. Wherever you go.**



*Fluke 51 Single Input Digital Thermometer*



*Fluke 52 Dual Input Digital Thermometer*

The new Fluke 50 Series II contact thermometers offer fast response and laboratory accuracy (0.05% + 0.3°C) in a rugged, handheld test tool.

### Fluke 51 Series II and 52 Series II product features:

- Large backlit dual display shows any combination of T1, T2 (52 only), T1-T2 (52 only), plus MIN, MAX, or AVG
- 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, and E-types of 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



*Fluke 53 Single Input Digital Thermometer with data logging*



*Fluke 54 Dual Input Digital Thermometer with data logging*

### The Fluke 53 Series II and 54 Series II include all the features listed above plus:

- Data Logging up to 500 points of data with user adjustable recording interval
- Additional thermocouple types R, S, and N (for a total of 7 different types)
- Real time clock captures the exact time of day when events occur
- Recall function allows logged data to be easily reviewed on the meter display
- IR communication port allows data to be exported to optional FlukeView® Temperature PC software for further analysis and graphing

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Pending



**Selection table**

	51 Series II	52 Series II	53 Series II	54 Series II
Thermocouple Types	J, K, T, E	J, K, T, E	J, K, T, E, N, R, S	J, K, T, E, N, R, S
Number of Inputs	Single	Dual	Single	Dual
Time Stamp	Relative Time	Relative Time	Time of Day	Time of Day
Rugged Design with Holster	•	•	•	•
Splash Proof / Dust Resistant	•	•	•	•
Dual Display w/ Backlight	•	•	•	•
MIN / MAX / AVG Recording	•	•	•	•
(T1-T2) True Differential		•		•
Data Logging Up to 500 Points			•	•
IR Data Port for Interface to PC			•	•
Compatible w/ Optional FlukeView Software			•	•



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.

**Specifications**

**Temperature**

**Measurement accuracy:**

Above -100 °C (-148 °F)  
 J, K, T, E, and N-type\*\* ±[0.05% + 0.3°C (0.5°F)]  
 R\*\* and S-type\*\* ±[0.05% + 0.4°C (0.7°F)]  
 Below -100 °C (-148 °F):  
 J, K, E, and N-types ±[0.20% + 0.3°C (0.5°F)]  
 T-type ±[0.50% + 0.3°C (0.5°F)]

**Display resolution:**

0.1°C / °F / K < 1000°  
 1°C / °F / K ≥ 1000°

**Measurement range:**

J-type: -210°C to 1200°C (-346°F to 2192°F)  
 K-type: -200°C to 1372°C (-328°F to 2501°F)  
 T-type: -250°C to 400°C (-418°F to 752°F)  
 E-type: -150°C to 1000°C (-238°F to 1832°F)  
 N-type\*\*: -200°C to 1300°C (-328°F to 2372°F)  
 R\*\* and S-type\*\*: 0°C to 1767°C (32°F to 3212°F)

**Temperature scale:** ITS-90

**Applicable standards:** NIST-175

\*\* Only the Fluke Models 53 and 54 Series II thermometers are capable of measuring N, R, and S-type thermocouples.

**Environmental**

**Operating temperature:** -10°C to 50°C (14°F to 122°F)  
**Storage temperature:** -40°C to 60°C (-40°F to 140°F)  
**Humidity:** 0% to 90%; 0°C to 35°C (32°F to 95°F)  
 0% to 70%; 0°C to 50°C (32°F to 122°F)

**General**

**Unit weight:** 400g (14 oz)  
**Dimensions:** 17.3 cm L x 8.6 cm W x 3.8 cm D  
 (6.8 in L x 3.4 in W x 1.5 in D)  
**Battery:** 3 AA batteries; typical 1000-hour life  
**Certification:** CE, CSA, TÜV (pending)  
**Safety:** CSA C22.2 No. 1010.1 1992; EN 61010 Amendments 1,2

**Included Accessories**

- Impact absorbing holster
- Two bead probe thermocouples (54+52)
- One beaded probe thermocouple (51+53)

**Fluke.** Keeping your world up and running.

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