

# 50 Series II Thermometers

Laboratory accuracy. Wherever you go.



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

51 and 52 Series II :

- Large backlit dual display shows any combination of T<sub>1</sub>, T<sub>2</sub> (52 only), T<sub>1</sub>-T<sub>2</sub> (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)
- Sleep mode increases battery life

- Battery door allows easy battery replacement without breaking the calibration seal
- Optional ToolPak accessory for hanging your thermometer

Additional features for the 53 and 54 Series II :

- 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

## Features

	51 II	52 II	53 II	54 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
Splash/Dust resistant	●	●	●	●
Dual display with backlight	●	●	●	●
Min/Max/Avg recording	●	●	●	●
(T <sub>1</sub> -T <sub>2</sub> ) True differential		●		●
Data logging up to 500 points			●	●
IR data port for interface to PC			●	●
Compatible with optional FlukeView Software			●	●

## Specifications

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

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

**Battery life :** 1000 hours typical, AA  
**Size (HxWxD) :** 173 x 86 x 38 mm  
**Weight :** 0.4 kg  
**Three Year Warranty**



## Accessories and Ordering Information

### Included Accessories

- Impact absorbing holster
- Two bead probe thermocouples 80PK-1 (54+52)
- One bead probe thermocouple 80PK-1 (51+53)

### Ordering Information

- Fluke 51 II Thermometer
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- Fluke 53 II Thermometer
- Fluke 54 II Thermometer
- FVF-SC1 FlukeView Forms Software including interface cable (P/N 690518)



敏盛企業有限公司

<http://www.mavin.com.tw>

TEL:03-5970828 FAX:03-5972622 新竹湖口工業區工業四路3號2F