

Fluke 50 Series II Thermometers

Lab accuracy in a field thermometer



Fluke 54 II B

Fluke 53 II B



The Fluke 50 Series II Contact Thermometers offer fast response and laboratory accuracy in a rugged handheld test tool.

- Laboratory accuracy: $\pm(0.05\% + 0.3^\circ\text{C})$
- Large backlit dual display
- Min/Max/Avg
- Electronic offset function maximizes overall accuracy
- Supports a wide range of thermocouple types
- Temperatures displayed in $^\circ\text{C}$, $^\circ\text{F}$, or Kelvin (K)
- Three-year warranty

Powerful data logging capabilities

The Fluke 53 II B and 54 II B can log up to 500 points of data to internal memory.

- User-adjustable recording intervals
- Real-time clock captures the exact event time
- Recall function lets logged data be easily reviewed
- Download data to optional FlukeView™ PC software



Fluke 51 II

Fluke 52 II

Recommended Accessories



Fluke 80PK-25
SureGrip™ Piercing Temperature Probe



Fluke 80PK-27
SureGrip™ Industrial Surface Temperature Probe



Fluke 80PK-10
Pipe Clamp Temperature Probe

Specifications	51 II	52 II	53 II B	54 II B
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
Dual display with backlight	•	•	•	•
Min/Max/Avg recording	•	•	•	•
(T ₁ -T ₂) True differential	-	•	-	•
Data logging up to 500 points	-	-	•	•
IR data port for interface to PC	-	-	•	•
Compatible with FlukeView™ Software	-	-	•	•
Battery life	1000 hours typical, AA			
Size (HxWxD)	173 mm × 86 mm × 38 mm			
Weight	0.4 kg			

Temperature range and accuracy

J-type Thermocouples	-210° C to 1200° C (-346° F to 2,192° F)
K-type Thermocouples	-200° C to 1372° C (-328° F to 2,501.6° 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 1,832° F)
N-type** Thermocouples	-200° C to 1300° C (-328° F to 2,372° F)
R** and S-type** Thermocouples	0° C to 1767° C (32° F to 3,212.6° F)

Temperature accuracy above -100° C:

J, K, T, E, and N-type**	$\pm[0.05\% + 0.3^\circ\text{C}]$
R** and S-type**	$\pm[0.05\% + 0.4^\circ\text{C}]$

Temperature accuracy below -100° C:

J, K, E, and N-types	$\pm[0.20\% + 0.3^\circ\text{C}]$
T-type	$\pm[0.50\% + 0.3^\circ\text{C}]$

Included Accessories

Fluke 50 Series Thermometers: Impact Absorbing Holster, Two Bead Probe Thermocouples 80PK-1 (54 and 52 only), One Bead Probe Thermocouple, 80PK-1 (51 and 53 only).

Ordering Information

- FLUKE 51 II** Single Input Digital Thermometer
- FLUKE 52 II** Dual Input Digital Thermometer
- FLUKE 53 II B** Single Input Digital Thermometer with Data Logging
- FLUKE 54 II B** Dual Input Digital Thermometer with Data Logging

Infrared and Field Thermometers

Contact your local distributor for price and availability.