

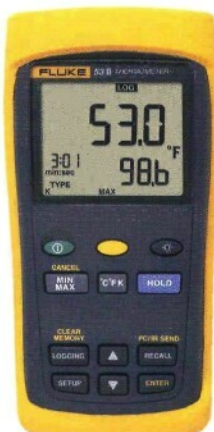
# The Fluke 50 Series II

## Laboratory Accuracy in Rugged Handheld Thermometers

**New**



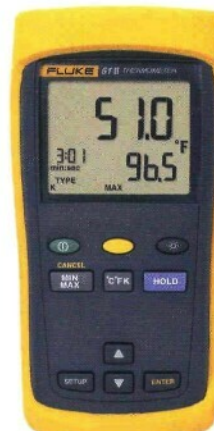
**Fluke 54 Series II**



**Fluke 53 Series II**



**Fluke 52 Series II**



**Fluke 51 Series II**

### Fluke 50 Series II features:

- Laboratory accuracy:  $\pm[0.05\% + 0.3^\circ\text{C}]$
- Large backlit dual display presents all the information you need at a glance.
- MIN, MAX, and AVG – with time references – captures major events
- Electronic Offset function maximizes overall accuracy by allowing you to compensate for thermocouple errors
- Supports a wide range of thermocouple types
- Temperatures displayed in  $^\circ\text{C}$ ,  $^\circ\text{F}$ , or Kelvin (K)
- Splash and dust resistant case design
- Holster enhances ruggedness
- Thermometers tested to withstand a one-meter drop
- User-friendly front panel that's easy to set-up and operate
- Sleep mode to increase battery life (typical 1000-hour life)
- Battery door allows easy battery replacement without breaking the calibration seal

### Powerful data logging capabilities

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

- User-adjustable recording intervals
- Real-time clock captures the exact time of day of events
- Recall function allows logged data to be easily reviewed on the meter display
- For further analysis and graphing, data can be exported to optional FlukeView PC software using the thermometer's IR communication port



Optional ToolPak accessory allows the 50 Series II thermometers 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.

## Accessories and Ordering Information

### Included Accessories

The Fluke 50 Series II Thermometers come with 80PK-1 bead thermocouple(s), batteries, overview manual, and instructional guide on CD-ROM.

### Optional Accessories

See page 35 for the complete line of Fluke Thermocouple Probes

### Ordering Information

51-2 Digital Thermometer, Single Input  
52-2 Digital Thermometer, Dual Input  
53-2 Datalogging Thermometer, Single Input  
54-2 Datalogging Thermometer, Dual Input  
FVF-SC1 FlukeView Forms Software

### FlukeView® Forms for Temperature Documentation and Analysis Software for Fluke 53 and 54 Series II Thermometers

Here's a fast and easy way to document, store and analyze temperature measurements from Fluke's newest digital thermometers.

- Produce professional-looking documents
- In-depth analysis with records, charts, and graphs
- Standard and customizable forms
- Export data to other measurement analysis programs
- Infrared interface between thermometer and PC makes data transfer fast and easy
- Optional IR adapter and cable for PCs without an IR port



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<http://www.fluke.com>



# Digital Thermometers

## Fluke 50S and 50D Digital Thermometers

**Reliable, Fluke-quality thermometers at our best value pricing.**

### Fluke 50S (Single input)

Here's a basic, single-input thermometer you can rely on.

- Accepts J or K-type thermocouples
- Rugged holster protects thermometer
- Hold mode freezes display for convenient viewing
- Manual Offset calibration pot increases overall accuracy

### Fluke 50D (Dual input)

Great for measuring input/output changes and differential trends, the 50D has all the features and functions of the 50S plus:

- Dual channel with differential output (T1-T2)
- MIN/MAX recording to capture events
- Scan function continuously scans through measurement sequence (T1, T2, T1-T2)



Fluke 50S



Fluke 50D



## Fluke 65 Infrared Thermometer

### Laser Quick. Fluke Tough.

The Fluke 65 Infrared Thermometer is ideal for quick, non-contact surface temperature measurement of rotating, hard-to-reach, electrically live, or dangerously hot targets. Targeting objects is easy with the bright laser beam. The large, backlit display is easy to read, even in the dark. Most importantly, the shock-absorbing holster helps to create one of the most rugged IR thermometers in the industry.



## Fluke 65 Infrared Thermometer Specifications

Range	-40 to 500 °C (-40 to 932 °F)
Response Time	Less than 1 second
Resolution	0.1° up to 200°, 1° over 200°
Repeatability	±1° or ±1%, whichever is greater
Accuracy	Above 0 °C (32 °F): ± 2 °C (± 4 °F) Below 0 °C (32 °F): ± 5 °C (± 9 °F) (With instrument stable at 23°C ± 3 °C)
Optical Resolution	8:1 Distance to Spot Size Ratio
Emissivity	Fixed at 0.95
Battery Life	Approximately 4000 Measurements (2xAAA)

## Features

	54 Series II	53 Series II	52 Series II	51 Series II	50D	50S
Thermocouple Types	K, J, T, E, N, R, S	K, J, T, E, N, R, S	K, J, T, E	K, J, T, E	K, J	K, J
Number of Inputs	Dual	Single	Dual	Single	Dual	Single
Time Stamp	Time of Day	Time of Day	Relative Time	Relative Time		
Rugged Design with Holster	•	•	•	•	•	•
Splash / Dust Resistant	•	•	•	•		
Dual Display with Backlight	•	•	•	•		
MIN / MAX / AVG Recording with Time Stamp	•	•	•	•		
Compatible with optional Toolpak™	•	•	•	•		
Differential (T1-T2) Readout	•		•		•	
Data Logging Up to 500 Points	•	•				
IR Data Port for Interface to PC	•	•				

## Specifications

	Fluke 50 Series II (51, 52, 53, 54)	50S & 50D
Temperature Measurement Accuracy (For temperatures above -100° C)	Type J, K, T, E, N: ±[0.05% + 0.3° C (0.5° F)] Type R & S: ±[0.05% + 0.4° C (0.7° F)]	Type K: ±[0.1% + 0.7° C (1.3° F)] Type J: ±[0.1% + 0.8° C (1.4° F)]
Measurement Range (depending on thermocouple type)	-250° C (-418° F) to 1767° C (3212° F)	-200° C (-328° F) to 1370° C (2498° F)
Display Resolution	0.1° C/°F/K < 1000°     1° C/°F/K > 1000°	0.1° C (0.2° F) over full range
Battery Life (typical)	1000 hours (3xAAA)	800 hours (9V)
Weight	400g (14 oz)	280g (10 oz.)
Warranty	3 years	1 year