

Fluke 54 Series II Thermometer

Lab accuracy in a field thermometer

The Fluke 51, 52, 53 and 54 Series II Thermometers offer high accuracy with fast response times to quickly capture your measurement and show trends. Choose from four models to get the functionality, thermocouple support and data logging you need.

All models offer:

- Laboratory accuracy: $\pm (0.05\% + 0.3\text{ }^{\circ}\text{C})$.
- 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.
- 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.



Specifications – 51, 52, 53 and 54 Series II

Features	51	52	53	54
Thermocouple types	K,J,T,E	K,J,T,E	K,J,T,E,N,R,S	K,J,T,E,N,R,S
Number of inputs	Single	Dual	Single	Dual
Time stamp	Relative time	Relative time	Time of day	Time of day
Temperature measurement accuracy (for temperatures above $-100\text{ }^{\circ}\text{C}$)	Type J,K,T,E,N: $\pm [0.05\% + 0.3\text{ }^{\circ}\text{C} (0.5\text{ }^{\circ}\text{F})]$ Type R,S: $\pm [0.05\% + 0.4\text{ }^{\circ}\text{C} (0.7\text{ }^{\circ}\text{F})]$			
Measurement range (depending on thermocouple type)		-250 $^{\circ}\text{C}$ (-418 $^{\circ}\text{F}$) to 1767 $^{\circ}\text{C}$ (3212 $^{\circ}\text{F}$)		
Display resolution	0.1 $^{\circ}\text{C}/^{\circ}\text{F}/\text{K} < 1000$, 1 $^{\circ}\text{C}/^{\circ}\text{F}/\text{K} \geq 1000$			
Operating temperature	-10 $^{\circ}\text{C}$ to 50 $^{\circ}\text{C}$ (14 $^{\circ}\text{F}$ to 122 $^{\circ}\text{F}$)			
Storage temperature	-40 $^{\circ}\text{C}$ to 60 $^{\circ}\text{C}$ (-40 $^{\circ}\text{F}$ to 140 $^{\circ}\text{F}$)			
Humidity	0 % to 90 %; 0 $^{\circ}\text{C}$ to 35 $^{\circ}\text{C}$ (32 $^{\circ}\text{F}$ to 95 $^{\circ}\text{F}$), 0 % to 70 %; 0 $^{\circ}\text{C}$ to 50 $^{\circ}\text{C}$ (32 $^{\circ}\text{F}$ to 122 $^{\circ}\text{F}$)			
Weight	400 g (14 oz)			
Size (HxWxD)	17.3 cm x 8.6 cm x 3.8 cm (6.8 in x 3.4 in x 1.5 in)			
Battery	Three AA batteries; typical 1000-hour life			
Warranty	Three-years			

Recommended accessories – 51, 52, 53 and 54 Series II Thermometers



TPak

ToolPak

Meter Hanging Kit



SOPK-8

Pipe Clamp Temperature Probe



SOPK-22

SureGrip™ Immersion Temperature Probe



SOPK-25

SureGrip™ Piercing Temperature Probe



FVF-SC1

FlukeView Forms Software