

**TECHNICAL DATA** 

# 54 II B Data Logging Thermometer with Dual Input



### **Key features**

- Large backlit dual display shows any combination of T1, T2 (52 and 54 only), T1-T2 (52 and 54 only), plus MIN, MAX, or AVG
- Recall function allows logged data to be easily reviewed on the meter display
- Infrared USB communication port allows data to be exported to optional FlukeView Forms® Temperature PC software for further analysis and graphing
- Data Logging up to 500 points of data with user adjustable recording interval
- 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, E, R, S, and N-type 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

Product overview: 54 II B Data Logging Thermometer with Dual



### **Input**

#### Laboratory accuracy. Wherever you go

Fluke 54 II B dual input digital thermometer can log up to 500 points of data to internal memory. Fast response and laboratory accuracy (0.05% + 0.3 °C). Take contact temperature for checking motors, insulation, breakers, pipes, corroded connections, liquids, and wires with industrial standard J, K, T, E, N, R, and S type thermocouple (temperature sensors).

## Specifications: 54 II B Data Logging Thermometer with Dual Input

General Specifications				
Temperature accuracy	Above -100u00b0C	J, K, T, E, and N-type: u00b1[0.05% + 0.3u00b0C] <sup>1</sup>		
		R and S-type: u00b1[0.05% + 0.4u00b0C] <sup>1</sup>		
	Below -100u00b0C	J, K, E, and N-types: u00b1[0.20% + 0.3u00b0C] <sup>1</sup>		
		T-type: u00b1[0.50% + 0.3u00b0C]		
Temperature	J-type	-210u00b0C to 1200u00b0C		
	K-type	-200u00b0C to 1372u00b0C		
	T-type	-250u00b0C to 400u00b0C		
	E-type	-150u00b0C to 1000u00b0C		
	N-type	-200u00b0C to 1300u00b0C <sup>1</sup>		
	R and S-type	0u00b0C to 1767u00b0C <sup>1</sup>		
Temperature scale	ITS-90	ITS-90		
Applicable standards	NIST-175	NIST-175		
Display resolution	0.1u00b0C, 0.1 K < 10	0.1u00b0C, 0.1 K < 1000		
	1u00b0C, 1 K u2265	1u00b0C, 1 K u2265 1000		
1. Only the Fluke Models 53 II B and 54	II B thermometers are cap	pable of measuring N, R, and S-type thermocouples.		
<b>Environmental Specifications</b>				
Operating temperature	-10u00b0C to 50u00b	-10u00b0C to 50u00b0C		
Storage temperature	-40u00b0C to 60u00b	-40u00b0C to 60u00b0C		
Humidity (without condensation)	0% to 90%; 0u00b0C	0% to 90%; 0u00b0C to 35u00b0C		
	0% to 70%; 0u00b0C	0% to 70%; 0u00b0C to 50u00b0C		
Safety Specifications				
Overvoltage category	CSA C22.2 No. 1010.	CSA C22.2 No. 1010.1 1992; EN 61010 Amendments 1,2		
Agency approvals	CE, CSA, Tu00dcV (pe	CE, CSA, Tu00dcV (pending)		
Mechanical and General Specificati	ons			
Size (L x W x D)	173 x 86 x 38 mm	173 x 86 x 38 mm		
Weight	400 g	400 g		



Baeries	3 AA baeries; typical 1000-hour life	
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## Ordering information



#### Fluke 54 II

Fluke 54 II Dual Input Digital Thermometer

#### Includes:

- Impact absorbing holster
- Two 80PK-1 bead probe thermocouples



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Fluke Corporation

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