

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 -100°C	J, K, T, E, and N-type: ±[0.05% + 0.3°C] ¹	
		R and S-type: ±[0.05% + 0.4°C] ¹	
	Below -100°C	J, K, E, and N-types: ±[0.20% + 0.3°C] ¹	
		T-type: ±[0.50% + 0.3°C]	
Temperature	J-type	-210°C to 1200°C	
	K-type	-200°C to 1372°C	
	T-type	-250°C to 400°C	
	E-type	-150°C to 1000°C	
	N-type	-200°C to 1300°C ¹	
	R and S-type	0°C to 1767°C ¹	
Temperature scale	ITS-90		
Applicable standards	NIST-175		
Display resolution	0.1°C, 0.1 K < 1000		
	1°C, 1 K ≥ 1000		
1. Only the Fluke Models 53 II B and 54 II E	3 thermometers are capable	of measuring N, R, and S-type thermocouples.	
Environmental Specifications			
Operating temperature	-10°C to 50°C		
Storage temperature	-40°C to 60°C		
Humidity (without condensation)	0% to 90%; 0°C to 35°C		
	0% to 70%; 0°C to 50°C		
Safety Specifications			
Overvoltage category	CSA C22.2 No. 1010.1 1992; EN 61010 Amendments 1,2		
Agency approvals	CE, CSA, TÜV (pending)		
Mechanical and General Specifications	3		
Size (L x W x D)	173 x 86 x 38 mm		
Weight	400 g		



Batteries 3 AA batteries; 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

PO Box 9090, Everett, WA 98206 U.S.A.

For more information call: In the U.S.A. (800) 443-5853 In Canada (800) 36-FLUKE From other countries +1 (425) 446-5500 www.fluke.com ©2022 Fluke Corporation. Specifications subject to change without notice. 01/2022

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