



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: $\pm[0.05\% + 0.3^{\circ}\text{C}]^1$
		R and S-type: $\pm[0.05\% + 0.4^{\circ}\text{C}]^1$
	Below -100°C	J, K, E, and N-types: $\pm[0.20\% + 0.3^{\circ}\text{C}]^1$
		T-type: $\pm[0.50\% + 0.3^{\circ}\text{C}]$
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 B 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	
Size (L x W x D)	173 x 86 x 38 mm
Weight	400 g
Batteries	3 AA batteries; typical 1000-hour life