724 Temperature Calibrator

The temperature solution

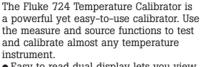The Fluke 724 Temperature Calibrator is a powerful yet easy-to-use calibrator. Use the measure and source functions to test and calibrate almost any temperature instrument.

- Easy to read dual display lets you view input and output simultaneously
- Measure RTDs, thermocouples, ohms, and volts to test sensors and transmitters
- Source/simulate thermocouples, RTDs, volts, and ohms to calibrate transmitters
- Perform fast linearity tests with 25% and 100% steps
- Execute remote tests with auto step and auto ramp
- Power transmitters during test using loop power supply with simultaneous mA measurement
- Store frequently-used test setups for later use
- Compact, streamlined shape makes it easy to carry
- Rugged, reliable design stands up to field use
- Backlight lets you work in poor light
- Large battery capacity of four AA cells
- Battery door for easy changes

Simultaneous Function Capability	Channel A	Channel B
24.000 mA DC	M	
24.000 mA DC with 24V loop supply	M	
100.00 mV DC		M or S
30.000V DC Measure	M	
20.000V DC Measure 10.000V DC Source		M or S
0 to 3200 Ohms		M or S
Thermocouple J, K, T, E, R, S, B, L, U, N		M or S
RTD Ni120; Pt100 (3926); Pt100 (JIS); Pt100, 200, 500, 1000 (385)		M or S

M = Measure   S = Source/Simulate

Accessories and Ordering Information

Included Accessories
TL75 Test Leads, AC72 Test Clips, one pair of stackable test leads.

Ordering Information
Fluke 724 Temperature Calibrator

Specifications

Summary specifications (18°C to 28°C for one year)

Function Measure or Source	Range	Resolution	Accuracy	Notes
Voltage	0 to 100 mV	0.01 mV	0.02% Rdg + 2 LSD	Max load, 1 mA
	0 to 10V (source) 0 to 30V (measure)	0.001V 0.001V		
mA (measure)	0 to 24	0.001 mA	0.02% Rdg + 2 LSD	Max load, 1000Ω
mV	–10.00 mV to +75.00 mV	0.01 mV	0.025% + of range + 1 LSD	
Resistance	0Ω to 3200Ω (measure) 15Ω to 3200Ω (source)	0.01Ω to 0.1Ω	0.10Ω to 1.0Ω	
Loop Supply	24V DC	N/A	10%	
Thermocouples	J,K,T,E,L,N,U	0.1°C	to 0.7°C	
Thermocouples	B,R,S	1°C	to 1.4°C	
RTDs	Ni120 (672) Pt 100, 200, 500, 1000 (385) Pt 100 (3916) Pt 100 (3926)	0.1°C	to 0.2° C	

Maximum voltage: 30V
Storage temperature: –20°C to 71°C
Operating temperature: –10°C to 55°C
Relative humidity: 90% (10°C to 35°C); 75% (30°C to 40°C); 45% (40°C to 50°C); 35% (50°C to 55°C)
Shock: 30g, 11ms, half-sine shock (or 1meter drop test)
Vibration: Random, 2g, 5-500 Hz
Safety: CSA C22.2 No. 1010.1:1992
EMC: EN50082-1:1992 and EN55022:1994 Class B
Size/weight (HxWxD): 96 x 200 x 47 mm ; 0.65 kg
Battery: Four AA alkaline batteries. Battery life: 25 hours typical
Three Year Warranty