

## Fluke 724 Temperature Calibrator

**New**



### The Temperature Solution!

The new 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

**Fluke.** *Keeping your world up and running.*

### Ordering information

#### Fluke 724 Temperature Calibrator

Each calibrator includes: TL75 Test Leads, AC70A Test Clips, one pair of stackable test leads, Product Overview Manuals in English, French, German, Spanish, Italian, Dutch, Norwegian, Danish, Swedish, Finnish, Portuguese, Korean, Chinese, and Japanese, Users Manuals on CD-ROM; CE and CSA markings.

## 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 to 10V (source) 0 to 30V (measure)	0.01 mV 0.001V 0.001V	.02% Rdg + 2 LSD	Max load, 1 mA
mA	0 to 24 mA (measure)	0.001 mA	.02% Rdg + 2 LSD	Max load, 1000Ω
mV (TC terminals)	-10.00 mV to +75.00 mV	.01 mV	.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%	

Temperature coefficient, -10°C to 18°C, 28°C to 55°C, ±.005% of range per °C.

### Thermocouple accuracy specifications

Thermocouple	Measure or Source	
J	-200 to 0°C 0 to 1200°C	1.0°C 0.7°C
K	-200 to 0°C 0 to 1370°C	1.2°C 0.8°C
T	-200 to 0°C 0 to 400°C	1.0°C 0.8°C
E	-200 to 0°C 0 to 950°C	0.9°C 0.7°C
R	-20 to 0°C 0 to 500°C 500 to 1750°C	2.5°C 1.8°C 1.4°C
S	-20 to 0°C 0 to 500°C 500 to 1750°C	2.5°C 1.8°C 1.5°C
B	600 to 800°C 800 to 1000°C 1000 to 1800°C	2.2°C 1.8°C 1.4°C
L	-200 to 0°C 0 to 900°C	0.85°C 0.7°C
U	-200 to 0°C 0 to 400°C	1.1°C 0.75°C
N	-200 to 0°C 0 to 1300°C	1.5°C 0.9°C
<b>Resolution</b>		
J, K, T, E, L, N, U		0.1°C, 0.1°F
B, R, S		1°C, 1°F
<b>Notes</b>		
Accuracy specifications include 0.2°C cold junction uncertainty.		

### RTD ranges and accuracy specifications

RTD Types, Ranges and Accuracies			
		Measure (4 wire)	Source
Ni 120	-80°C to 260°C	0.2°C	0.2°C
Pt 100 - 385	-200°C to 800°C	0.33°C	0.33°C
Pt 100 - 3926	-200°C to 630°C	0.3°C	0.3°C
Pt 100 - 3916 (JIS)	-200°C to 630°C	0.3°C	0.3°C
Pt 200 - 385	-200°C to 250°C 250°C to 630°C	0.2°C 0.8°C	0.2°C 0.8°C
Pt 500 - 385	-200°C to 500°C 500 to 630°C	0.3°C 0.4°C	0.3°C 0.4°C
Pt 1000 - 385	-200°C to 100°C 100°C to 630°C	0.2°C 0.3°C	0.2°C 0.2°C
<b>Resolution</b>			
RTD	0.1°C, 0.1°F		

### General specifications

**Maximum voltage:** 30V

**Storage temperature:** -20°C to 71°C

**Operating temperature:** -10°C to 55°C

**Relative humidity:** 90% (10°C to 30°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:** 96 x 200 x 47 mm (3.8 x 7.9 x 1.9 inches)

650g (23 oz)

**Battery:** Four AA alkaline batteries. Battery life: 25 hours typical

**Warranty:** Three years