

Fluke 724

Temperature Calibrator

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**Built for the masters
of temperature.**

The new Fluke 724: everything you need to troubleshoot and calibrate temperature.

Now you can carry one tool to expertly test all the temperature sensors and transmitters in your plant.

The Fluke 724 is the master's answer to temperature calibration. The Fluke 724 can measure and source 10 thermocouple types and 7 RTD types, plus volts and ohms.

It even handles high-speed pulsed RTD circuits and provides loop power. The dual line measure/source display lets you source temperature and view loop current at the same time. And with its simple, "no menus" controls, the Fluke 724 is easy to operate, too.

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Fluke 724 Temperature Calibrator

Features

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Feel the Heat!

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

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Fluke 724 Temperature Calibrator Specifications

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- [Summary Specifications \(18°C to 28°C for one year\)](#)
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Summary Specifications (18°C to 28°C for one year) *	
Voltage (max load, 1 mA)	0 to 100 mV: Resolution: 0.01 mV Accuracy: .02% Rdg + 2 LSD 0 to 10V (source): Resolution: 0.001V Accuracy: .02% Rdg + 2 LSD 0 to 30V (measure): Resolution: 0.001V Accuracy: .02% Rdg + 2 LSD
mA (max load, 1000Ω)	0 to 24 mA: Resolution: 0.001 mA Accuracy: .02% Rdg + 2 LSD
mV (TC terminals)	-10.00 mV to +75.00 mV: Resolution: .01 mV Accuracy: .025% Rdg + 1 LSD
Resistance	0Ω to 3200Ω (measure): Resolution: 0.01Ω to 0.1Ω Accuracy: 0.10Ω to 1.0Ω 15Ω to 3200Ω (source): Resolution: 0.01Ω to 0.1Ω Accuracy: 0.10Ω to 1.0Ω

Loop Supply	24V dc: Resolution: N/A Accuracy: 10%
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*Temperature coefficient, -10°C to 18°C, 28°C to 55°C,±.005% of range per °C.

Thermocouple Accuracy Specifications (measure or source) *	
J	-200 to 0°C: Accuracy: 1.0°C 0 to 1200°C: Accuracy: 0.7°C
K	-200 to 0°C: Accuracy: 1.2°C 0 to 1370°C: Accuracy: 0.8°C
T	-200 to 0°C: Accuracy: 1.0°C 0 to 400°C: Accuracy: 0.8°C
E	-200 to 0°C: Accuracy: 0.9°C 0 to 950°C: Accuracy: 0.7°C
R	-20 to 0°C: Accuracy: 2.5°C 0 to 500°C: Accuracy: 1.8°C 500 to 1750°C: Accuracy: 1.4°C
S	-20 to 0°C: Accuracy: 2.5°C 0 to 500°C: Accuracy: 1.8°C 500 to 1750°C: Accuracy: 1.5°C
B	600 to 800°C: Accuracy: 2.2°C 800 to 1000°C: Accuracy: 1.8°C 1000 to 1800°C: Accuracy: 1.4°C
L	-200 to 0°C: Accuracy: 0.85°C 0 to 900°C: Accuracy:0.7°C

U	-200 to 0 °C: Accuracy: 1.1 °C 0 to 400 °C: Accuracy: 0.75 °C
N	-200 to 0 °C: Accuracy: 1.5 °C 0 to 1300 °C: Accuracy: 0.9 °C

*(Accuracy specifications include 0.2 °C cold junction uncertainty)

Thermocouple Resolution	
J, K, T, E, L, N, U	0.1 °C, 0.1 °F
B, R, S	1 °C, 1 °F

RTD Ranges and Accuracy Specifications *	
Ni 120	-80 °C to 260 °C: Measure: 0.2 °C Source: 0.2 °C
Pt 100 - 385	-200 °C to 800 °C: Measure: 0.33 °C Source: 0.33 °C
Pt 100 - 3926	-200 °C to 630 °C: Measure: 0.3 °C Source: 0.3 °C
Pt 100 - 3916 (JIS)	-200 °C to 630 °C: Measure: 0.3 °C Source: 0.3 °C
Pt 200 - 385	-200 °C to 250 °C: Measure: 0.2 °C Source: 0.2 °C 250 °C to 630 °C: Measure: 0.8 °C Accuracy: 0.8 °C
Pt 500 - 385	-200 °C to 500 °C: Measure: 0.3 °C Source: 0.3 °C 500 °C to 630 °C: Measure: 0.4 °C Accuracy: 0.4 °C
Pt 1000-385	-200 °C to 100 °C Measure: 0.2 °C Source: 0.2 °C 100 °C to 630 °C Measure: 0.3 °C Source: 0.2 °C

*Note: Measure (4 wire)

RTD Resolution

RTD	0.1°C, 0.1°F
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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)
Vibration	Random, 2g, 5-500 Hz
Safety	CSA C22.2 No. 1010.1:1992
EMC	EN50082-1:1992 and EN55022:1994 Class B
Size	96 x 200 x 47 mm (3.8 x 7.9 x 1.9 inches)
Weight	650g (23oz)
Battery	Four AA alkaline batteries. Battery life: 25 hours typical
Warranty	Three years

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Models, Options & Accessories

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Model Name	Product Description
Fluke 724	Temperature Calibrator comes with TL75 Test Leads, AC70A Test Clips, one pair of stackable test leads, Product Overview Manuals in English, French, German, Spanish, Italian, Portugese, Korean, Chinese and Japanese. Users manuals on CD-ROM; CE and CSA Markings.

Available Accessories and Options

Model Name	Accessory or Option Description
80CJ-M	Mini-Connector (Type J; For 50 Series Only)
80CK-M	Mini-Connector (Type-K)
80PJ-EXT	Extension Wire Kit
80PK-1 80PJ-1	General Purpose Bead Probes
80PK-2A	K-Type Immersion Probe (Requires 80TK Thermocouple Module)
80PK-3A	K-Type Flat Surface Probe (Requires 80TK Thermocouple Module)
80PK-4A	K-Type Air Probe (Requires 80TK Thermocouple Module)
80PK-5A 80PT-5A	Piercing Probes
80PK-6A	K-type Exposed Junction Probe (Requires 80TK Thermocouple Module)

80PK-7	K-Type Industrial / Heavy Duty Surface Probe (Requires 80TK Thermocouple Module)
80PK-8	K-Type Probe Pipe Clamp Temperature Probe 80PK-8 (Requires 80TK Thermocouple Module)
80PK-9 80PJ-9	General Purpose Probes
80PK-EXT	Extension Wire Kit
80PK-IR	Infrared Temperature Probe
80PT-EXT	Extension Wire Kit
AC20	Industrial Test Clips
C100	Universal Carrying Case
C120	Hard shell carrying case. Holds Fluke 123 and all standard accessories
C125	Compact soft case with belt loop. Includes removable accessory pouch
C510	Leather Meter Case
C530	Leather Accessory Case
C550	Tool bag
Fluke 700TC1	Thermocouple Mini-Plug Kit (11 types)
Fluke 700TC2	Thermocouple Mini-Plug Kit Type J, K, T, E, R/S
LPACK80-4	LockPak
TPAK	Meter Hanging Kit

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