

# Fluke 712, 714 and 724 Temperature Calibrators



The Fluke 710 Series temperature calibrators deliver outstanding performance, durability and reliability. And with a push-button interface, similar to the multifunction Fluke 750 Series Documenting Process Calibrators, the 710 Series are easy to use. Each calibrator is EMI tolerant, dust- and splash-resistant, and features a removable battery door for quick battery changes.

## Fluke 714 Thermocouple Calibrator

- Measure temperature from TC probes
- Simulate TC output
- Operable with nine types of thermocouples
- Calibrate linear TC transmitter with mV source function
- Selectable °F or °C
- 25 % stepping, auto-step and auto-ramp
- Available as accessories: Fluke 700TC1 and TC2 Thermocouple Mini-plug Kits
- Ramp and Step Ramp output functions

## Fluke 712 RTD Calibrator

- Compatible with pulsed current transmitters
- Measure temperature from an RTD probe
- Simulate RTD output
- Operates with seven types of RTD
- Measure additional RTDs using ohms measurement function
- Simulate additional RTDs using ohms source function
- °F or °C selectable
- 25 % stepping, auto-step and auto-ramp
- Ramp and Step Ramp output functions



## Specialty model

### Fluke 724 Temperature Calibrator

- Source/measure TCs, RTDs, volts and ohms
- Measure mA while supplying loop power
- 25 % and 100 % stepping, auto-step and auto ramp



## Recommended accessories



**TL175 (712/724)**  
TwistGuard™ Test Leads  
See page 59



**TL220 (712/724)**  
SureGrip Industrial Test Lead Set  
See page 57



**80PK-24 (714/724)**  
SureGrip Air Temperature Probe  
See page 60



**80PK-3A (712/724)**  
Surface Probe  
See page 60



**TPAK**  
Magnetic Meter Hanger  
See page 64



**AC220**  
SureGrip Alligator Clips  
See page 59



**C101 (724)**  
Meter Hard Case  
See page 56



**C25 (712/714)**  
Large Soft Case  
See page 56

## Specifications

Models	Functions	Range	Resolution	Accuracy	Notes
Fluke 712	Measure/simulate RTD	-200 °C to 800 °C (Pt 100-385)	0.1 °C, 0.1 °F	0.2 °C, 0.4 °F (Pt 100-385)	Pt; 100 200 500 1000 (385); Pt 100 (392); Pt 100 (392) JIS; Ni 120 (672)
	Measure/simulate resistance	5 Ω to 4000 Ω	0.1 Ω	0.025 %	—
Fluke 714	Measure/simulate thermocouple	-200 °C to 1800 °C, depending on type (K, -200 °C to 1370 °C)	0.1 °C or °F (1 °C or °F; BRS)	0.5 °C, 0.8 °F (Type K)	9 TC types; J K T E R S B per NIST 175 and ITS-90 L U per DIN 43710 and PTS-68
	Measure/simulate mV	-10 mV to 75 mV	0.01 mV	0.015 % +10 μV	—

### General specifications for all Fluke 712 through 718 calibrators.

**Maximum voltage:** 30 V. **Non-operating temperature:** -40 °C to 60 °C. **Operating temperature:** -10 °C to 55 °C.

**Relative humidity:** 95 % (10 °C to 30 °C); 75 % (30 °C to 40 °C); 45 % (40 °C to 50 °C); 35 % (50 °C to 55 °C).

**Operating altitude:** 3,000 m max. **Shock:** 1 m drop test. **Vibration:** Random, 2 g, 5-800 Hz.

**Safety:** CSA C22.2 No. 1010.1:1992. **EMC:** EN50082-1:1992 and EN55022:1994 Class B.

**Size/weight (HxWxD) (712-717):** 187 mm x 87 mm x 32 mm (7.35 in x 3.41 in x 1.25 in) 330 g (12 oz).

**Size/weight (HxWxD) (712-717 with holster):** 201 mm x 98 mm x 52 mm (7.93 in x 3.86 in x 2.06 in) 600 g (21 oz).

**Size/weight (HxWxD) (718):** 210 mm x 83 mm x 62 mm (8.25 in x 3.27 in x 2.44 in) 737 g (26 oz).

**Size/weight (HxWxD) (718 with holster):** 216 mm x 94 mm x 66 mm (8.50 in x 3.72 in x 2.60 in) 992 g (35 oz).

**Power:** 9 V battery ANSI/NEDA 1604A or IEC 6LR619V alkaline; two batteries in 718.

**Battery life:** 4 to 20 hours, typical, depending on functions used.

**Warranty:** Three-year (one-year on pressure pump in Fluke 718).

## Ordering information

Included accessories	Models
Test leads, test clips, one pair of stackable test leads, product overview manual, users manual in 14 languages on CD.	FLUKE-724 Temperature Calibrator
Test leads, alligator clips (excluding model 714), holster with test lead storage, single 9 V alkaline battery and instruction sheet (14 languages).	FLUKE-714 Thermocouple Calibrator
	FLUKE-712 RTD Calibrator

Check price and availability at  
[www.fluke.com/wtb](http://www.fluke.com/wtb)