

Fluke 712 and 714 Temperature Calibrators

The Fluke 712 and 714 temperature calibrators deliver outstanding performance, durability and reliability. These calibrators are compact, lightweight and easy to carry and with a push-button interface and are easy to use. Each calibrator is EMI tolerant, dust- and splash-resistant and features a removable battery door for quick battery changes.

Auto-step and auto-ramp features support remote testing.

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
- Thermocouple mini-jack termination
- Available as accessories: Fluke 700TC1 and TC2 Thermocouple Mini-plug Kits

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
- Four shrouded banana jacks

General Specifications

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 Hz to 500 Hz

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

Size/weight (HxWxD): 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) (with holster and Flex-Stand™): 201 mm x 98 mm x 52 mm (7.93 in x 3.86 in x 2.06 in) 600 g (21 oz) 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. Battery timeout (configurable) extends battery life.

Warranty: Three-years

Functional Specifications

		Range	Resolution	Accuracy	Types
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	15 Ω to 4000 Ω	0.1 Ω	+ 0.005 Ω	
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	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	

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