

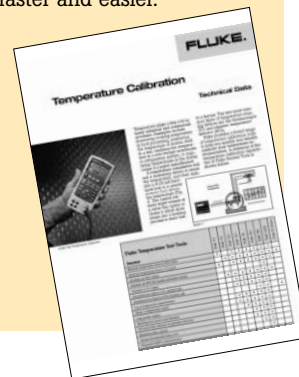
Fluke 712, 714 and 724 Temperature Calibrators

Accurate and rugged, temperature calibration tools.

Temperature Calibration Data Sheet

(Literature code 1560369)

See how Fluke can help you calibrate, troubleshoot and verify the most common temperature devices, faster and easier.



The Fluke 710 Series temperature calibrators deliver outstanding performance, durability and reliability. Offered in the rugged Fluke 80 Series DMM package, the calibrators are compact, lightweight, and easy to carry. And with a push-button interface, similar to the multifunction Fluke 740 Series Documenting Process Calibrators, the 710s are easy to use. Each calibrator is EMI tolerant, dust- and splash-resistant, and features a removable battery door for quick battery changes.

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

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 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
- For specifications, see page 29

Specifications - 712 and 714 Calibrators

Model	Function	Range	Resolution	Accuracy	Notes
Fluke-712	Measure/simulate RTD	-200 °C to 800 °C (Pt 100-385)	0.1 °C, 0.1 °F	0.33 °C, 0.6 °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 3200 Ω	0.1 Ω	0.1 Ω to 1 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)	0.3 °C + 10 µV	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 to 75 mV	0.01 mV	0.025 % + 1 count	

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:** 1m 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 and FlexStand™): 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-years (one year on pressure pump in Fluke 718)



Recommended accessories - 712, 714 and 724 Calibrators



TL75 (712 and 714)
See page 39

C550 (712 and 714)
See page 44

TL220 (712 and 714)
See page 39

C25 (712 and 714)
See page 44

80PK-24 (714)
See page 42

TL75 (724)
See page 39

TL220 (724)
See page 39

C100 (724)
See page 44

80PK-3A (724)
See page 42

80PK-1R (724)
See page 42

Included accessories

Each 71X calibrator includes: C81Y Protective Yellow Holster with Flex-Stand™, test leads and alligator clips (excluding model 714), single 9 V alkaline battery and instruction sheet (14 languages).

Ordering information

Fluke-712 RTD Calibrator
 Fluke-714 Thermocouple Calibrator
 Fluke-724 Temperature Calibrator
 (also see page 29)

For more information, go to

www.MyFlukeStore.com