

712/714 Temperature Calibrators

The clear choice



The Fluke 710 Series Process Calibrators offer clear new choices in single-function calibrators. Whatever you want to measure - temperature, pressure or basic electrical parameters - you'll find one of these easy-to-carry handheld tools gives you exactly the functions you need. They combine the rugged, ready-for-action package of the proven Fluke 80 Series DMMs with the easy-to-use pushbutton operation of the multifunction Fluke 740 Series Documenting Process Calibrators. These calibrators are EMI tolerant, dust and splash resistant, and have a removable battery door for quick battery changes.

712 RTD Calibrator

- Measure temperature from RTD output
- Simulate RTD output
- Rosemount pulsed RTD transmitter compatible
- Operates with seven types of RTDs
- Measure additional RTDs using Ohms measurement function
- Simulate additional RTDs using Ohms source function
- °F or °C selectable
- Four shrouded banana jacks

714 Thermocouple Calibrator

- Measure temperature from TC output
- 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 700 TC1 and TC2 Thermocouple Mini-plug Kits

Specifications

Model	Function	Range	Resolution	Accuracy	Notes
Fluke 712	Measure/simulate RTD	-200 to 800°C (Pt 100)	0.1°C, 0.1°F	0.33°C, 0.6°F (Pt 100)	Pt: 100 200 500 1000 (385); Pt 100 (3926); Pt 100 (3916) 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 to 1800°C, depending on type (K, -200 to 1370°C)	0.1°C or °F (1°C or °F; BRS)	0.3°C to 10 µV	9 TC types: J K T E R S B per NIST 175 and ITS-90, L U per DIN 43710 and IPTS-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 volts

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: 3,000m max

Shock: 1m 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 (712-717) (HxWxD): 187 mm x 87 mm x 32 mm; 0.33 kg

Size/weight, (712-717 with holster and FlexStand™) (HxWxD): 201mm x 98 mm x 52 mm; 600g

Size/weight (718) (HxWxD): 210 mm x 83 mm x 62 mm; 0.737 kg

Size/weight, (718 with holster) (HxWxD): 216 mm x 94 mm x 66 mm; 0.992 kg

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

Battery Life: 4 to 20 hours, typical, depending on functions used

Three Year Warranty



Accessories and Ordering Information

Included Accessories

Each calibrator includes: C81Y Protective Yellow Holster with Flex-Stand™, Test Leads and Alligator Clips (excluding model 714), single 9V alkaline battery and Instruction Sheet (14 languages)

Optional Accessories

See Accessories Compatibility Guide on pages 41-52

Ordering Information

Fluke 712 RTD Calibrator

Fluke 714 Thermocouple Calibrator