

EXTECH
INSTRUMENTS

FLUKE.

REED
INSTRUMENTS

GENERAL

Multi-Channel Handheld Temperature Meters

■ NIST units include a certificate of calibration
Compatible with thermocouples, thermistors, and RTDs to measure different types of samples simultaneously. Models with built-in data-logging feature allow data to be stored, transferred, and uploaded to external sources like a PC.



Temperature Meter Type	Temp. Range (F)	Res.	Accuracy	Memory	No. of Channels	Brand	STANDARD Item No.	NIST Item No.
Data-Logging Handheld Multi-Channel Temperature Meters								
RTD/Thermocouple with Data Output and Min/Max	Type E -58° to 1652°, Type J -148° to 2192°, Type K -148° to 2372°, Type R 32° to 3092°, Type S 32° to 2732°, Type T -58° to 752°	0.1°, 1°	±0.4% +1.8°F/1°C (Types J, K, E, T, Pt100), ±0.5% +2°F/1°C (Types R, S)	Min/Max	4	Exttech	13X127	13X128
Thermocouple/Thermistor/RTD with Data Output	Type K -328° to 2498°, Type R 4° to 3182°, Type S 4° to 3182°	0.001°	±0.002°C (Precision Thermistors), Up to ±0.011°C (PRTs), ±0.24°C (J,K,L,M Thermocouples)	Calibration Information	2	Fluke	—	4FFH7
	Type K -328° to 2498°, Type R 4° to 3182°, Type S 4° to 3182°	0.001°	±0.002°C (Precision Thermistors), Up to ±0.011°C (PRTs), ±0.24°C (J,K,L,M Thermocouples)	Calibration Information	1	Fluke	—	4FFH5
	328° to 1832°F, 328° to 4199°F, 58° to 302°F	0.001°	±0.002°C (Precision Thermistors), Up to ±0.011°C (PRTs), ±0.24°C (J,K,L,M Thermocouples)	Calibration Information	2	Fluke	—	444L71
	328° to 1832°F, 328° to 4199°F, 58° to 302°F	0.001°	±0.002°C (Precision Thermistors), Up to ±0.011°C (PRTs), ±0.24°C (J,K,L,M Thermocouples)	Calibration Information	2	Fluke	—	444L72 *
Thermocouple with Data Output and Min/Max	-327.9° to 1562°	0.1°F/0.1°C, 1°F/1°C	±0.4% +1.8°F/1°C	Min/Max	2, 4	Reed Instruments	56HN59	—
Handheld Multi-Channel Temperature Meters								
RTD/Thermocouple with Data Output and Min/Max	-148° to 3092°	0.1°F/0.1°C, 1°F/1°C	±0.44% +1.8°F (1,000° to 1,562°F), ±0.4% +1.8°F (RTD: -327° to 999°F/-200° to 537°C), ±0.4% +2°F (Thermocouple: -328° to 2,498°F/-200° to 1,370°C)	Min/Max	4	General	6XAK0	—

* Dual input.



Temp. Range (F)	Res.	Accuracy	Cable Length	Probes Included	Item No.
Critical Environment Digital Thermometers					
-40° to 176°F	0.1°F/0.1°C	±1.5°C	6 ft	(1) Wire Bullet Probe	6KEA2
	0.1°F/0.1°C	±0.5°C	10 ft	(1) Glycol Filled 5 mL Glass Vaccine Bottle Probe	6KEA0
	0.1°F/0.1°C	±0.5°C	10 ft	(1) Glycol Filled 15 mL Glass Bottle Probe	3KTV4
	0.1°F/0.1°C	±0.5°C	10 ft	(1) Vaccine Bottle Probe	6KEA1
	0.1°F/0.1°C	±0.5°C at -30 to 50°C, Otherwise ±1°C	10 ft	(2) Glycol Filled 15 mL Glass Bottle Probes	38RJ46
-58° to 158°F	0.1°F/0.1°C	±0.5°C at -30 to 50°C, Otherwise ±1°C	10 ft	(1) Glycol Filled 15 mL Glass Bottle Probe	38RJ45
	0.1°F/0.1°C	±1°C	3.5 ft	(2) Bullet Probe	6KED2
	0.1°F/0.1°C	±1°C	10 ft	(1) Bullet Probe	6KEA5
	0.1°F/0.1°C	±1°C	10 ft	(1) Glycol Filled 5 mL Glass Vaccine Bottle Probe	6KEA7
	0.1°F/0.1°C	±1°C	10 ft	(1) Glycol Filled 15 mL Bottle Probe	6KEA6
Critical Environment Digital Thermometers with Onboard Data Logging					
	0.01°F/0.01°C	±0.25°C	10 ft	(1) Plastic Bullet Probe	33HP66
	0.01°F/0.01°C	±0.25°C	10 ft	(1) Plastic Bullet Probe	33HP73
	0.01°F/0.01°C	±0.25°C	10 ft	(1) Glycol Filled 15 mL Glass Bottle Probe	33HP71
	0.01°F/0.01°C	±0.25°C	10 ft	(2) Glycol Filled 15 mL Glass Bottle Probes	33HP72
	0.01°F/0.01°C	±0.25°C	10 ft	(1) Glycol Filled 15 mL Glass Bottle Probe, (1) Plastic Bullet Probe	33HP75
Critical Environment Digital Thermometers with Remote Monitoring & Data Logging					
	0.1°F/0.1°C	±0.25°C Between -40.00°C to 60.00°C, Otherwise ±0.50°C	9 ft	(2) Plastic Bullet Probes	52CE43
	0.1°F/0.1°C	±0.25°C	9 ft	(2) Stainless Steel Penetration Probes	52CE44
-58° to 140°F	0.1°F/0.1°C	±0.25°C Between -40.00°C to 60.00°C, Otherwise ±0.50°C	9 ft	(2) Glycol Filled 15 mL Glass Bottle Probes	52CE41
	0.1°F/0.1°C	±0.25°C Between -40.00°C to 60.00°C, Otherwise ±0.50°C	9 ft	(1) Glycol Filled 15 mL Glass Bottle Probe, (1) Plastic Bullet Probe	52CE42
	0.1°F/0.1°C	±0.1°C	9 ft	(1) Stainless Steel Penetration Probe	52CE45
	0.1°F/0.1°C	±0.1°C	9 ft	(1) Stainless Steel Penetration Probe	52CE46
Critical Environment Digital Thermometers with Remote Monitoring, Data Logging & Humidity Measurement					
32° to 131°F	0.1°F/0.1°C/0.1% RH	±0.4°C/±3%	6 ft	(1) Ambient Temperature/Humidity Sensor	52CE47
	0.1°F/0.1°C/0.1% RH	±0.4°C/±3%	6 ft	(1) Cabled Ambient/Humidity Sensor	52CE48

TRACEABLE®

Critical Environment Digital Thermometers

■ Include NIST-traceable certificate of calibration

Digital thermometers use an external bottle, bullet, and immersion probe to take measurements. The bottle is placed into a specific environment like a freezer or oven, and temperature readings are shown on the digital display. Capture max./min. temperatures as well as current temperature.

Thermometers with onboard data-logging allow recorded data to be transferred to a PC or Mac with a wired connection.

Thermometers with remote monitoring have an onboard data-logging feature that allows recorded data to be transferred to a PC or Mac without a wired connection. Data values can be stored via cloud or transmitted over Wi-Fi.

Thermometers with humidity measurement measure and log relative humidity and temperature levels.