



TECHNICAL DATA

Fluke CNX™ t3000 Temperature Measurement Kit



Key features

The CNX t3000 Temperature Measurement Kit provides measurement of all common electrical and temperature parameters.

The CNX 3000 Wireless Multimeter offers:

- True RMS AC and DC voltage measurements to 1000V
- True RMS AC and DC current with 0.01 mA resolution
- Continuity, resistance, diode test, capacitance and frequency measurements
- MIN/MAX Recording
- CAT III 1000 V; CAT IV 600 V; IP54

The CNX t3000 K-Type Wireless Temperature Module provides:

- Temperature measurements from -200 °C to 1372 °C
- ± 0.5% accuracy
- Memory recording up to 65,000 readings
- Backlit LCD display
- IP42 with thermocouple attached

The CNX wireless system can track up to 10 measurement modules simultaneously, with results sent to a PC for detailed analysis.

Product overview: Fluke CNX™ t3000 Temperature Measurement Kit

The CNX t3000 Temperature Measurement Kit is part of the team of Fluke wireless troubleshooting tools.

Connect the CNX t3000 Wireless Temperature Module to your test point, and view the results up to 20 meters away on the CNX Wireless Multimeter. You'll save time, with less run-around collecting multiple measurements. Use multiple modules for measurements on several test points, simultaneously. Or use as a stand-alone measurement tool or combine with other CNX modules as a system for multiple measurements. From short distances, you can even view readings from modules through closed electrical panels. Plus no more writing down data as the CNX t3000 temperature module captures up to 65,000 sets of time stamped min/max/avg readings, using the optional PC adapter. CNX wireless test tools also offer increased safety by letting you view readings in a separate location from the test point. Now you can take readings on moving machinery, with only the measurement module in harm's way.

[View other members of the wireless team](#)

Specifications: Fluke CNX™ t3000 Temperature Measurement Kit

CNX 3000 Wireless Multimeter

For all specifications: accuracy is specified for one year after calibration, at operating temperatures of 18 °C to 28 °C, with relative humidity at 0 % to 90 %. Accuracy specifications take the form of ± ([% of Reading] + [Number of least

significant digits J).

Detailed Specifications

AC Voltage

Range ¹	Resolution	Accuracy ^{2 3}	
		45 Hz to 500 Hz	500 Hz to 1 kHz
600.0 mV	0.1 mV	1.0 % + 3	2.0 % + 3
6.000 V	0.001 V		
60.00 V	0.01 V		
600.0 V	0.1 V		
1000 V	1 V		

Notes:

¹ All AC voltage ranges are specified from 1 % of range to 100 % of range.

² Crest factor of $\square 3$ at full scale p to 500 V, decreasing linearly to crest factor < 1.5 at 1000 V.

³ For non-sinusoidal waveforms, add $-(2 \% \text{ of reading} + 2 \% \text{ full scale})$ typical, for crest factor up to 3.

DC Voltage, Continuity, Resistance, Diode Test and Capacitance

Function	Range	Resolution	Accuracy
mV	600.0 mV	0.1 mV	0.09 % + 2
V	6.000 V	0.001 V	0.09 % + 2
	60.00 V	0.01 V	
	600.0 V	0.1 V	
	1000 V	1 V	0.15 % + 2
Ω	600 Ω	1 Ω	Meter beeps at < 25 Ω , beeper detects opens or shorts of 250 μs or longer.
Ω	600.0 Ω	0.1 Ω	0.5 % + 2
	6.000 k Ω	0.001 k Ω	0.5 % + 1
	60.00 k Ω	0.01 k Ω	
	600.0 k Ω	0.1 k Ω	
	600.0 k Ω	0.001 M Ω	1.5 % + 3
50.00 M Ω	0.01 M Ω		
Diode test	2.000 V	0.001 V	1 % + 2
μF	1000 nF	1 nF	1.2 % + 2
	10.00 μF	0.01 μF	
	100.0 μF	0.1 μF	
	9999 μF ¹	1 μF	10 % typical

Notes:

¹ In the 9999 μF range for measurements to 1000 μF , the measurement accuracy is 1.2 % + 2.

AC and DC Current

Function	Range ¹	Resolution	Accuracy
mA AC (45 Hz to 1 kHz)	60.00 mA	0.01 mA	1.5 % + 3
	400.0 mA ³	0.1 mA	
mA DC ²	60.00 mA	0.01 mA	0.5 % + 3
	400.0 mA	0.1 mA	

Notes:

¹ All AC current ranges are specified from 5 % of range to 100 % of range.

² Input burden voltage (typical): 400 mA input 2 mV/mA.

³ 400.0 mA accuracy specified up to 600 mA overload.






Frequency

Range	Resolution	Accuracy ¹
99.99 Hz	0.01 Hz	0.1 % + 1
999.9 Hz	0.1 Hz	
9.999 kHz	0.001 kHz	
99.99 kHz	0.01 kHz	

Notes:

¹ Frequency is specified up to 99.99 kHz in volts and up to 10 kHz in amps.

Input Characteristics

Function	Overload Protection	Input Impedance (nominal)	Common Mode Rejection Ratio (1 kΩ unbalance)	Normal Mode Rejection
	1100 V RMS	> 10 MΩ < 100 pF	> 120 dB at DC, 50 Hz or 60 Hz	> 60 dB at 50 Hz or 60 Hz
	1100 V RMS	> 10 MΩ < 100 pF	> 60 dB, DC to 60 Hz	
	1100 V RMS	> 10 MΩ < 100 pF	> 120 dB at DC, 50 Hz or 60 Hz	> 60 dB at 50 Hz or 60 Hz
Open circuit test voltage			Full scale	Typical short circuit current
	1100 V RMS	< 2.7 V DC	To 6 MΩ: < 0.7 V DC 50 MΩ: < 0.9 V DC	< 350 mA
	1100 V RMS	< 2.7 V DC	To 6 MΩ: 2.000 V DC	< 1.1 mA

Function	Overload Protection	Overload
mA	Fused, 44/100 A, 1000 V FAST Fuse	600 mA overload for 2 minutes maximum, 10 minutes rest minimum

MIN/MAX Recording

Function	Accuracy
DC functions	The specified accuracy of the measurement function ± 12 counts for changes > 350 mS in duration.
AC functions	The specified accuracy of the measurement function ± 40 counts for changes > 900 mS in duration.

General Specifications

Maximum voltage between any terminal and earth ground	1000 V DC or AC RMS
Ω fuse protection from A inputs	0.44 A (44/100 A, 440 mA), 1000 V FAST Fuse, Fluke specified part only
Display (LCD)	Update rate: 4/sec Volts, amps, ohms: 6000 counts Frequency: 10,000 counts Capacitance: 1,000 counts
Baery type	Three AA Alkaline baeries, NEDA 15A IEC LR6
Baery life	300 hours minimum
Temperature	Operating: -10 °C to 50 °C Storage: -40 °C to 60 °C
Relative humidity	0 % to 90 % (0 °C to 35 °C) 0 % to 75 % (35 °C to 40 °C) 0 % to 45 % (40 °C to 50 °C)
Altitude	Operating: 2,000 m Storage: 12,000 m
Temperature coefficient	0.1 X (specified accuracy) / °C (<18 °C or >28 °C)
Wireless frequency	2.4 GHz ISM Band 20 meter range
Size (HxWxL)	4.75 cm x 9.3 cm x 20.7 cm (1.87 in x 3.68 in x 8.14 in)
Weight	340 g (12 oz)
Safety standards	US ANSI: ANSI/ISA 61010-1 / (82.02.01): 3rd edition CSA: CAN/CSA-C22.2 No 61010-1-12: 3rd edition CE European: IEC/EN 61010-1:2010
Electromagnetic compatibility EMI, RFI, EMC, RF	EN 61326-1:2006, EN 61326-2-2:2006 ETSI EN 300 328 V1.7.1:2006, ETSI EN 300 489 V1.8.1:2008, FCC Part 15 Subpart C Sections 15.207, 15.209, 15.249 FCCID : T68-FWCS IC:6627A-FWCS
Ingress Protection (IP) rating	IP54
Notes:	
<ul style="list-style-type: none"> • Accuracy is specified as ± ([% of reading] + [number of least significant digits]). • All ranges are autoranging. • Accuracy is specified from 5 % to 100 % of the range obtained by autoranging, from 18 °C to 28 °C. 	

Fluke CNX t3000 Wireless K-Type Temperature Module

Specifications	
Range	-200 °C to 1372 °C
Resolution	0.1 °C
Accuracy	±[0.5 % + 0.3 °C] counts
Input terminals	K-Type mini
LCD w/backlight	3 digits

Log rate/interval	1 sec minimum/adjustable by PC
Battery type	2 AA, NEDA 15 A, IEC LR6
Battery life	400 hours
Memory	Record up to 65,000 readings
RF communications	2.4 GHZ ISM Band
RF communication range	20 Meters
Operating temperature	-10 °C to +50 °C
Storage temperature	-40 °C to +60 °C
Temperature scale	ITS-90
Operating humidity	90 % at 35 °C, 75 % at 40 °C, 45 % at 50 °C
EMC	EN 61326-1:2006
Safety compliance	CAT I per IEC/EN 61010-1:2010 EN/IEC 61010-2-030:2010
Pollution degree	2
Temperature coefficient	0.01 % of reading +0.03 °C per °C
Certifications	CSA, FCC T68-FWCS IC:6627A-FWCS
Ingress Protection (IP) rating	IP42 with thermocouple attached
Size (HxWxD)	16.5 cm x 6.35 cm x 3.56 cm (6.5 in x 2.5 in x 1.4 in)
Weight	.22 kg (8 oz)

Fluke. *Keeping your world up and running.®*

Fluke Europe B.V.

P.O. Box 1186
5602 BD Eindhoven
The Netherlands
www.fluke.com/en

©2025 Fluke Corporation. All rights reserved.
Data subject to alteration without notice.
03/2025

For more information call:

In Middle East/Africa
+31 (0)40 267 5100

**Modification of this document is not permitted
without written permission from Fluke
Corporation.**