

TECHNICAL DATA

Fluke CNX™ v3000 AC Voltage Kit



Key features

The CNX v3000 AC Voltage Kit provides measurement of all common electrical 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 v3000 AC Wireless Voltage Module offers:

- True RMS AC voltage measurements to 1000V
- $\pm 1\%$ accuracy to 500 Hz, $\pm 2\%$ accuracy to 1 kHz
- Memory recording up to 65,000 readings
- Backlit LCD display
- CAT III 1000 V; CAT IV 600 V; IP42

Using the optional PC adapter, the CNX wireless troubleshooting system can track up to 10 measurement modules simultaneously, with results sent to a PC for further analysis.

Product overview: Fluke CNX™ v3000 AC Voltage Kit

The CNX v3000 AC Voltage Kit is part of the Fluke team of wireless test tools.

Connect the CNX v3000 AC Wireless Voltage 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 three-phase systems. 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 v3000 voltage 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™ v3000 AC Voltage 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 $\pm$ ([% of Reading] + [Number of least significant digits]).

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 √ 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 % of reading + 2 % 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	
	60.00 k Ω	0.1 k Ω	
	600.0 k Ω	0.001 M Ω	
	50.00 M Ω	0.01 M Ω	1.5 % + 3
Diode test	2.000 V	0.001 V	1 % + 2
μ F	1000 nF	1 nF	1.2 % + 2
	10.00 μ F	0.01 μ F	
	100.0 μ F	0.1 μ F	
	9999 μ F ¹	1 μ F	10 % typical

Notes:
¹ In the 9999 μ F range for measurements to 1000 μ F, 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 k Ω unbalance)	Normal Mode Rejection
	1100 V RMS	> 10 M Ω < 100 pF	> 120 dB at DC, 50 Hz or 60 Hz	> 60 dB at 50 Hz or 60 Hz
	1100 V RMS	> 10 M Ω < 100 pF	> 60 dB, DC to 60 Hz	
	1100 V RMS	> 10 M Ω < 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: • Accuracy is specified as $\pm$ ([% 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 v3000 AC Wireless Voltage Module

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Notes: ¹ All AC voltage ranges are specified from 1 % of range to 100 % of range. ² Crest factor of $\sqrt{3}$ at full scale p to 500 V, decreasing linearly to crest factor < 1.5 at 1000 V. ³ For non-sinusoidal waveforms, add -(2 % of reading + 2 % full scale) typical, for crest factor up to 3.			
General Specifications			
Display	3-1/2 digits, LCD w/backlight		
Baery type	2 AA, NEDA 15 A, IEC LR6		
Baery life	400 hours		
Memory	Record up to 65,000 readings		
Unbound listen interval	5 seconds		
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		
Operating humidity	90 % at 35 °C 75 % at 40 °C 45 % at 50 °C		
EMC	EN 61326-1:2006		

Safety compliance	EN/IEC 61010-1:2010 to 1000 V Measurement Category (CAT) III 600 V Measurement Category (CAT) IV EN/IEC 61010-2-030:2010 EN/IEC 61010-031:2002+A1:2008
Pollution degree	2
Temperature coefficient	Add 0.1 X (specified accuracy) / °C (<18 °C or >28 °C)
Safety rating	CAT IV 600 V, CAT III 1000 V
Certifications	CSA, FCC T68-FWCS IC:6627A-FWCS
Ingress Protection (IP) rating	IP42
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)

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