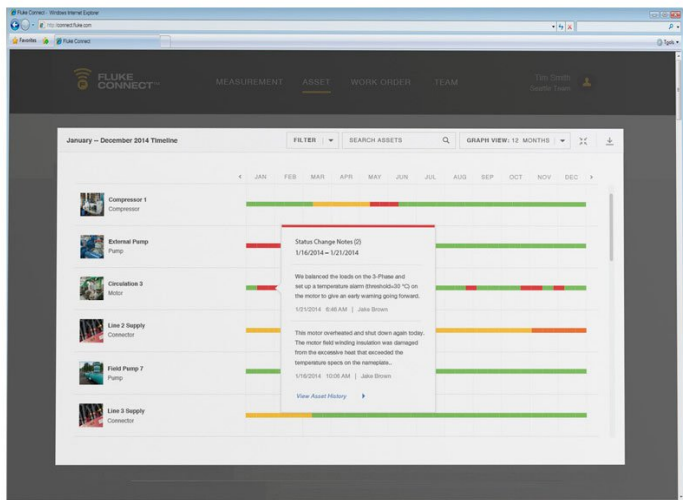




TECHNICAL DATA

Fluke a3000 FC Wireless AC Current Clamp Kit





Key features

The Fluke a3000 FC Wireless AC Current Clamp Kit provides measurement of many common electrical parameters

The Fluke 3000 FC Series Wireless Multimeter with the Fluke Connect® app has all the essentials for convenient test and measurement troubleshooting:

- AC and DC voltage measurements to 1000V
- 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 Fluke a3000 FC Wireless AC Current Clamp Module has all the essentials for convenient test and measurement troubleshooting:

- True-RMS AC clamp meter
- Measure up to 400 A AC
- Use as a standalone meter or as part of the system
- Logging function for recording and saving up to 65,000 readings
- Inrush function

Product overview: Fluke a3000 FC Wireless AC Current Clamp Kit

The Fluke a3000 FC Wireless AC Current Clamp Kit is part of the Fluke Connect® team of wireless test tools

Connect the a3000 FC Wireless AC Current Clamp Module to your test point, and view the results up to 20 meters away on the 3000 FC Wireless Digital Multimeter.

You'll save time, with less run-around collecting multiple measurements. Use multiple modules for measurements on three-phase systems, as a stand-alone measurement tool or combine with other Fluke Connect™ 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 FC Wireless AC Current Clamp Module captures up to 65,000 sets of time stamped min/max/avg readings, using the optional PC adapter. Fluke Connect 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.

Specifications: Fluke a3000 FC Wireless AC Current Clamp Kit

Fluke 3000 FC Series 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]).

AC Voltage		
Range ¹ / resolution		600.0 mV / 0.1 mV 6.000 V / 0.001 V 60.00 V / 0.01 V 600.0 V / 0.1 V 1000 V / 1 V
Accuracy ^{2 3 4}	45 Hz to 500 Hz	1.0% + 3
	500 Hz to 1 kHz	2.0% + 3
<p>1. All AC voltage ranges are specified from 1% of range to 100% of range. 2. Crest factor of $\sqrt{3}$ at full scale up to 500 V, decreasing linearly to crest factor < 1.5 at 1000 V. 3. For non-sinusoidal waveforms, add $\pm(2\%$ of reading + 2% full scale) typical, for crest factor up to 3. 4. Do not exceed 107 V-Hz.</p>		
DC Voltage, Continuity, Resistance, Diode Test and Capacitance		
mV	Range / resolution	600.0 mV / 0.1 mV
	Accuracy	0.09% + 2
V	Range / resolution	6.000 V / 0.001 V 60.00 V / 0.01 V 600.0 V / 0.1 V 1000 V / 1 V
	Accuracy	0.09% + 2 0.15% + 2
)))	Range / resolution	600 Ω / 1 Ω
	Accuracy	Meter beeps at < 25 Ω , beeper detects opens or shorts of 250 μ s or longer.
Ω	Range / resolution	600.0 Ω / 0.1 Ω 6.000 k Ω / 0.001 k Ω 60.00 k Ω / 0.01 k Ω 600.0 k Ω / 0.1 k Ω 600.0 k Ω / 0.001 M Ω 50.00 M Ω / 0.01 M Ω
	Accuracy	0.5% + 2 0.5% + 1 1.5% + 3
Diode test	Range / resolution	2.000 V / 0.001 V
	Accuracy	1% + 2
μ F	Range / resolution	1000 nF / 1 nF 10.00 μ F / 0.01 μ F 100.0 μ F / 0.1 μ F 9999 μ F ¹ / 1 μ F
	Accuracy	1.2% + 2 10% typical
<p>1. In the 9999 μF range for measurements to 1000 μF, the measurement accuracy is 1.2% + 2.</p>		
AC and DC Current		

mA AC (45 Hz to 1 kHz)	Range¹ / resolution	60.00 mA / 0.01 mA 400.0 mA ³ / 0.1 mA
	Accuracy	1.5% + 3
mA DC ²	Range¹ / resolution	60.00 mA / 0.01 mA 400.0 mA ³ / 0.1 mA
	Accuracy	0.5% + 3




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


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

Input Characteristics

	Overload protection	1100 Vrms
	Input impedance (nominal)	> 10 MΩ < 100 pF
	Common mode rejection ratio (1 kΩ unbalance)	> 120 dB at DC, 50 Hz or 60 Hz
	Normal mode rejection	> 60 dB at 50 Hz or 60 Hz
	Overload protection	1100 Vrms
	Input impedance (nominal)	> 10 MΩ < 100 pF
	Common mode rejection ratio (1 kΩ unbalance)	> 60 dB, DC to 60 Hz
	Normal mode rejection	> 60 dB at 50 Hz or 60 Hz
	Overload protection	1100 Vrms
	Input impedance (nominal)	> 10 MΩ < 100 pF
	Common mode rejection ratio (1 kΩ unbalance)	> 120 dB at DC, 50 Hz or 60 Hz
	Normal mode rejection	> 60 dB at 50 Hz or 60 Hz

Open Circuit Test Voltage

	Overload protection	1100 Vrms
	Input impedance (nominal)	< 2.7 VDC
	Full scale voltage to 6 MΩ	< 0.7 VDC
	Full scale voltage 50 MΩ	< 0.9 VDC
	Typical short circuit current	< 350 mA

	Overload protection	1100 Vrms
	Input impedance (nominal)	< 2.7 VDC
	Full scale voltage to 6 MΩ Full scale voltage 50 MΩ	2.000 VDC
	Typical short circuit current	< 1.1 mA
mA Function		
Overload protection	Fused, 44/100 A, 1000 V FAST Fuse	
Overload	600 mA overload for 2 minutes maximum, 10 minutes rest minimum	
MIN/MAX Recording Accuracy		
DC functions	±12 counts for changes > 350 mS in duration.	
AC functions	±40 counts for changes > 900 mS in duration.	
General Specifications		
Maximum voltage between any terminal and earth ground	1000 VDC 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	250 hours minimum	
RF communications	2.4 GHZ ISM Band	
RF communication range	Open air, unobstructed	Up to 20 m
	Obstructed, sheetrock wall	Up to 6.5 m
Obstructed, concrete wall, or steel electrical enclosure	Up to 3.5 m	
Temperature	Operating	-10°C to 50°C
	Storage	-40°C to 60°C
Temperature coefficient	0.1 x (specified accuracy) / °C (< 18°C or > 28°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

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 : FCC: T68-FDMMBLE IC: 6627A-FDMMBLE
Safety compliance	ANSI/ISA 61010-1 / (82.02.01): 3rd edition CAN/CSA-C22.2 No 61010-1-12: 3rd edition UL 61010-1: 3rd edition IEC/EN 61010-1:2010
Certifications	CSA, FCC, CE
Ingress Protection (IP) rating	IP54
Pollution Degree	2
Size (H x W x L)	4.75 x 9.3 x 20.7 cm (1.87 x 3.68 x 8.14 in)
Weight	340 g (12 oz)
Warranty	Three years
Not compatible with Fluke CNX test tools	

Fluke a3000 FC Wireless AC Current Clamp Module

Specifications		
Range	0.5 A to 400.0 A	
Resolution	0.1 A	
Accuracy	400.0 A: 2% ±5 digits (10 Hz to 100 Hz), 2.5% ±5 digits (100 Hz to 500 Hz)	
Inrush	Max displayed reading	999.9A
Crest factor (50 Hz / 60 Hz)	3 at 500 A 2.5 at 600 A 1.42 at 1000 A Add 2% for C.F. > 2	
LCD w/backlight	3½ 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	Open air, unobstructed	Up to 20 m
	Obstructed, sheetrock wall	Up to 6.5 m
	Obstructed, concrete wall or steel electrical enclosure	Up to 3.5 m
Operating temperature	-10°C to +50°C	
Storage temperature	-40°C to +60°C	
Temperature coefficient	Add 0.1 x (specified accuracy) / °C (< 18°C or > 28°C)	

Operating humidity	90% at 35°C 75% at 40°C 45% at 50°C	
Altitude	Operating	2,000 m
	Storage	12,000 m
EMC	EN 61326-1:2006	
Safety compliance	IEC 61010-1, 600 V CAT III, 3rd edition Pollution Degree 2	
Safety rating	CAT III 600 V	
Certifications	CSA, CE, FCC: T68-FBLE IC: 6627A-FBLE	
Ingress Protection (IP) rating	IP30	
Pollution Degree	2	
Jaw opening	34 mm (1.33 in)	
Size (H x W x D)	20.3 x 7.49 x 3.55 cm (8 x 2.95 x 1.4 in)	
Weight	.22 kg (8 oz)	
Warranty	Three years	
Not compatible with Fluke CNX test tools		

Ordering information



FLK-a3000 FC KIT

Fluke a3000 FC Wireless AC Current Clamp Kit

Includes:

- Fluke 3000 FC Series Wireless Multimeter
- Fluke a3000 FC Wireless AC Current Clamp Module
- TL175 Test Leads
- AC175 Alligator Clips

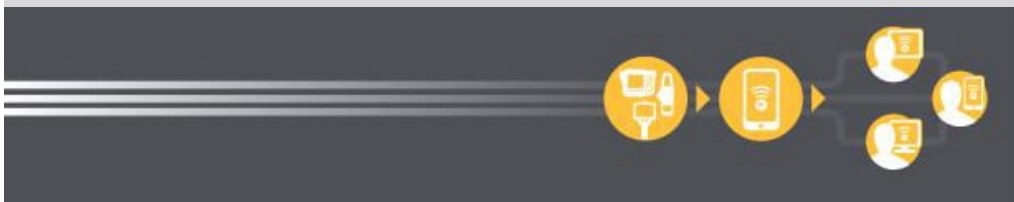


Preventive maintenance simplified. Rework eliminated.

Save time and improve the reliability of your maintenance data by wirelessly syncing measurements using the Fluke Connect® system.

- Eliminate data-entry errors by saving measurements directly from the tool and associating them with the work order, report or asset record.
- Maximize uptime and make confident maintenance decisions with data you can trust and trace.
- Access baseline, historical and current measurements by asset.
- Move away from clipboards, notebooks and multiple spreadsheets with a wireless one-step measurement transfer.
- Share your measurement data using ShareLive™ video calls and emails.

Find out more at flukeconnect.com



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Smart phone wireless service and data plan not included with purchase. Fluke Connect is not available in all countries.