

FCC3450 Flexible Clamp Meter



- Up to 3000 A AC current measurement
- 1000 V AC/DC measurement
- 150 mm maximum conductor size
- Megger Link™ app compatible
- Continuity and frequency measurement
- Data hold on all ranges
- Low battery LED indicator
- CAT IV 600 V/CAT III 1000 V
- Supplied with protective carry pouch

DESCRIPTION

The FCC3450 is a Bluetooth® enabled flexible current clamp, designed to make AC/DC voltage, frequency, continuity and resistance measurements, as well as AC current up to 3000 A. It measures True RMS voltage up to 1000 V AC/DC and comes with built in display with 10 000 count resolution. As well as resistance, continuity, frequency, and capacitance for quick verifications. It meets CAT IV 600 V and CAT III 1000 V AC/DC safety.

Due to the length and flexibility of the coil, measurements can be made around large conductors, or those conductors inaccessible to a fixed-head clamp.

Pairing with the free Megger Link™ app give the user the ability to make remote readings or record measurements directly to iOS® and Android™ table or phone for storage or report creation.

Functions :

- Current measurement up to 3000 A AC
- Voltage measurement up to 1000 V AC/DC
- Frequency measurement,
- Resistance and continuity measurement with buzzer
- Auto ranging
- Data hold
- Over range and low battery indication

APPLICATIONS

- The FCC3450 is a Row CAT IV/600 V rated flexible current clamp, measuring up to 1000 V AC/DC and up to 3000 A AC.
- The coil's length and flexibility enable measurements around large or hard-to-reach conductors that a fixed-head clamp cannot access.
- Pairing with the free Megger Link™ app give the user the ability to make remote readings or record measurements directly to their smart device for storage or report creation.

SPECIFICATIONS

Electrical Specifications

AC Current Range	30 A / 300 A / 3000 A	
Accuracy	±(3% + 5 digit)	
Resolution	0.01 A to 1 A	
Minimal reading current	1 A	
Crest factor	Up to 3	
Position error of clamp from Model	Distance from optimum	Accuracy
FCC3450	35 mm/1.4"	±1.0%
	50 mm/2.0"	±1.5%
	60 mm/2.4"	±2.0%

FCC3450

Flexible Clamp Meter

AC Voltage

AC response	True RMS
Range	1000 V
Resolution	0.1 V
Accuracy	$\pm(1.5\% + 5 \text{ digit})$
Bandwidth	45 Hz to 500 Hz
Minimal reading voltage	3 V

DC Voltage

Range	1000 V
Accuracy	0.1 V
Resolution	$\pm(0.7\% + 5 \text{ digits})$
Minimal reading voltage	+ 2.4 V / - 0.7 V

Frequency

Range	100 Hz to 10 kHz
Resolution	0.01 Hz to 1Hz
Accuracy	$\pm(0.3\% + 3 \text{ digits})$
Sensitivity depending of range:	from 3 A and from 10 V

Minimal reading frequency

10 Hz

Resistance

Range	1000 Ω and 10 k Ω
Resolution	1 Ω
Accuracy	$\pm(0.9\% + 2 \text{ digits})$
Continuity	yes with buzzer (less than 20 Ω)
Function	HOLD

AC Function

ACV and ACA specifications are AC coupled, True RMS.

For non-sinusoidal waveforms, adjust accuracy by Crest Factor (C.F.):

Add 1.0% for C.F. 1.0 to 2.0

Add 2.5% for C.F. 2.0 to 2.5

Add 4.0% for C.F. 2.5 to 3.0

Wireless Communications

BluetoothR Low Energy (4.0)

Radio Frequency: 2.4 GHz ISM Band

Effective range: Open air 10 m

General Specifications

Display	LCD display with backlight
Counts	10 000 counts
Overload display	OL or OL
Probe diameter	11 mm
Maximum conductor	458 mm
Measuring rate	up to 2 sample per second
Response time	2 s
Interface	Bluetooth® (Bluetooth® Low Energy 4.0, effective range: open air 10 m)

Environmental Conditions

Temperature Coefficient	0.1 x (specified accuracy) / °C (<18 °C or >28 °C)
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Operating Temperature

-10 °C to 30 °C ($\leq 80\%$ R.H.)

30 °C to 40 °C ($\leq 75\%$ R.H.)

40 °C to 50 °C ($\leq 45\%$ R.H.)

Storage Temperature	-20 °C to 60 °C ($\leq 80\%$ R.H., no batteries)
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Max. Operating Altitude	2000 m (6562 ft.)
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Drop Protection	1.2 m drop to hardwood on concrete floor
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Vibration:	Random Vibration per MIL-PRF-28800F Class 2
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Category rating	600 V CAT IV, 1000 V CAT III
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Standards	IEC/EN 61010-1, EN 61010-2-032, EN 61010-2-033
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Battery type	2 Batteries, IEC LR6, Alkaline (AA)
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Battery life:	Alkaline 60 hours
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Auto Power Off	after 20 minutes
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Dimensions	120 x 288 x 35 mm
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Weight	230 g (without batteries)
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ORDERING INFORMATION

Description	Part number
FCC3450	1013-833

FCC3450_DS_en_V02

ISO 9001
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Megger[®]