

FCC3450

Flexible Clamp Meter



- Up to 3000 A AC current measurement
- 1000 V AC/DC measurement
- 150 mm maximum conductor size
- Megger LinkTM 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 fixedhead 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

FCC3450 35 mm/1.4" ±1.0%
50 mm/2.0" ±1.5%
60 mm/2.4" ±2.0%

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AC Voltage

AC response True RMS 1000 V Range 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 0.1 V **Accuracy**

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 $k\Omega$

1 Ω Resolution

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

10 000 counts **Counts** Overload display OL or OL **Probe diameter** 11 mm **Maximum conductor** 458 mm

Measuring rate up to 2 sample per second

Response time

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)

Operating Temperature

-10 °C to 30 °C (≤ 80% R.H.) 30 °C to 40 °C (≤ 75% R.H.) 40 °C to 50 °C (≤ 45% R.H.)

-20 °C to 60 °C (≤ 80% R.H., **Storage Temperature**

no batteries)

Max. Operating Altitude 2000 m (6562 ft.)

Drop Protection 1.2 m drop to hardwood on

concrete floor

Vibration: Random Vibration per

MIL-PRF-28800F Class 2

Category rating 600 V CAT IV, 1000 V CAT III

Standards IEC/EN 61010-1, EN 61010-2-032,

EN 61010-2-033

Battery type 2 Batteries, IEC LR6, Alkaline (AA)

Battery life: Alkaline 60 hours **Auto Power Off** after 20 minutes **Dimensions** 120 x 288 x 35 mm Weight 230 g (without batteries)

ORDERING INFORMATION

Description Part number FCC3450 1013-833

