# Megger.

## FCC3450

Flexible Clamp Meter



WESCHLER INSTRUMENTS phone: 800-903-9870 440-378-6580 fax: 800-903-9590 440-238-0660 www.weschler.com info@weschler.com

- 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<sup>™</sup> app give the user the ability to make remote readings or record measurements directly to iOS® and Android<sup>™</sup> 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<sup>™</sup> 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<br>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"<br>50 mm/2.0"<br>60 mm/2.4" | ±1.0%<br>±1.5%<br>±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            | ±(0.7% + 5 digits) |
| Minimal reading volta | age                |
|                       | + 2.4 V / - 0.7 V  |

| Frequency                       |                           |  |
|---------------------------------|---------------------------|--|
| Range                           | 100 Hz to 10 kHz          |  |
| Resolution                      | 0.01 Hz to 1Hz            |  |
| Accuracy                        | ±(0.3% + 3 digits)        |  |
| Sensitivity depending of range: |                           |  |
|                                 | from 3 A and from 10 V $$ |  |

Minimal reading frequency

10 Hz

#### Resistance

| Range      | 1000 $\Omega$ and 10 $k\Omega$          |
|------------|---|
| Resolution | 1 Ω                                     |
| Accuracy   | ±(0.9% + 2 digits)                      |
| Continuity | yes with buzzer (less than 20 $\Omega)$ |
| 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

#### **SALES OFFICE**

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**Environmental Conditions Temperature Coefficient** 

**General Specifications** 

**Overload display** 

Maximum conductor

Probe diameter

Measuring rate

**Response time** 

Interface

Display Counts

|   | 0.1 x (specified accuracy) / °C<br>(<18 °C or >28 °C)                                      |
|---|--|
| <b>Operating Temperature</b>              |  |
|   | -10 °C to 30 °C (≤ 80% R.H.)<br>30 °C to 40 °C (≤ 75% R.H.)<br>40 °C to 50 °C (≤ 45% R.H.) |
| Storage Temperature                       | -20 °C to 60 °C ( $\leq$ 80% R.H., no batteries)   |
| Max. Operating Altitude 2000 m (6562 ft.) |  |
| Drop Protection                           | 1.2 m drop to hardwood on concrete floor   |
| Vibration:                                | Random Vibration per<br>MIL-PRF-28800F Class 2   |
| Category rating                           | 600 V CAT IV, 1000 V CAT III   |
| Standards                                 | IEC/EN 61010-1, EN 61010-2-032,<br>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)  |

LCD display with backlight

up to 2 sample per second

Bluetooth® (Bluetooth® Low Energy 4.0, effective range: open air 10 m)

10 000 counts

OL or OL

11 mm

458 mm

2 s

#### **ORDERING INFORMATION**

| Description | Part number |
|-------------|-------------|
| FCC3450     | 1013-833    |
|             |             |

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