

GENERAL

The MCCV6000-18 is a flexible multi-range, auto identifying current clamp meant for operation with the Megger Power Quality Line of Instruments. This current clamp will measure AC current up to 6000Aac. This CT is powered by the Megger line of Power Quality Instruments.

SAFETY and SYMBOLS



WEEE

The crossed out wheeled bin placed on Megger products is a reminder not to dispose of the product at the end of its life with general waste. Megger is registered in the UK as a Producer of Electrical and Electronic Equipment. The Registration No is WEE/DJ2235XR.



Equipment complies with current EU directives.



Application around or removal from hazardous live conductors is permitted.



Equipment protected throughout by double insulation.



CAUTION is defined as a condition or practice which could result in damage to or destruction of the equipment or apparatus under test.



WARNING is defined as a condition or practice which could result in personal injury or loss of life.

Safety warnings are precautions that must be read and understood before the instrument is used. They must be observed during use.

Do not leave the instrument connected to the system under test when not in use.

Always use extreme caution when connecting the instrument around bare conductors, under fault conditions, high voltage or currents may be present and may pose a shock hazard.

Personal protective equipment (PPE) must be used during the installation and removal of this instrument from hazardous live connectors.

Do not touch circuit connections or any metal that is exposed due to damaged insulation.

Do not use the instrument or connect it to any external system if it shows any visible signs of damage, malfunction or if it has been stored in unfavorable conditions.

Always inspect the instrument prior to use.

Replace any defective parts or return the instrument to an authorized center for repair.

Do not use the instrument or connect it to any external system if the enclosure is open or any parts of the enclosure are missing.

The instrument shall not be used if any parts are damaged.

This instrument is not intrinsically safe and must not be used in hazardous atmospheres.

If this equipment is used in the manner not specified by the manufacturer, the protection provided by the equipment may be impaired.

SPECIFICATIONS

Max Voltage: 1000V to Ground

The instrument is not suitable for measuring DC currents.

Current Range: 5 – 60AAC RMS

Scale at 60A 16.7mV / Amp

Current Range: 60 – 600AAC RMS

Scale at 600A 1.67mV / Amp

Current Range: 600 – 3000AAC RMS

Scale at 3000A 0.33mV / Amp

Current Range: 1500 – 6000AAC RMS

Scale at 6000A 0.167mV / Amp

Bandwidth: 20 Hz to 5 kHz

Accuracy: 1% of reading @ 50/60Hz

Phase Shift: < 0.7° max @ 60A

Phase Shift: < 0.4° max @ 600A

Phase Shift: < 0.4° max @ 3000A

Phase Shift: < 0.4° max @ 6000A

Overload: 20KA Continuous

Power Source: PQ Instrument

ID: 7 inches (18.0cm)

Length: Total Cable Length
6 feet (182.8cm)

Weight: 10 oz (283g)

Operating Temperature: -20 – 50C

Storage Temperature: -40 – 70C

Humidity: 95% NC

Altitude: 2000 meters

COMPLIANCE

IP54
IEC61010-2-032: 2002 Compliant
IEC 61326-1: 2013
600V CAT IV, Pollution Category 2

For Class A Equipment

*In a high interference environment the accuracy of the sensor may be degraded. If interference is suspected use a standard Current Clamp. At conducted frequencies 45-50 MHz transients may be induced in the current readings.

OPERATING CONTROLS

Power ON: The CT will power up as soon as it is attached the power quality analyzer. The LED will first flash the internal firmware revision code of the CT. Then the range the CT is set to will flash.



OPERATING INSTRUCTIONS

Installation



Personal protective equipment (PPE) must be used during the installation and removal of this instrument.

1. Connect the CT to the Power Quality Instrument. CT will power up.



2. Depress the clips on the flexible coil contacts to open the flexible coil.



3. Place the flexible coil around the cable or buss bar to be measured and close the coil by clipping together the contacts.

NOTE Be sure the arrow on the CT is facing the direction of the load.

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4. Select the desired range by pressing the range button repeatedly, until the desired range LED flashes.



NOTE: The unit will power up in the range that was selected when powered off.

Removal

1. Depress the clips on the flexible coil contacts to open the flexible coil.
2. Remove the flexible coil from the cable or buss bar and close the coil by clipping together the contacts.
3. Disconnect the CT from the Power Quality Instrument.

MAINTENANCE



Have maintenance performed only by qualified service personnel.

Cleaning and Decontamination

Do not clean with anything more than a clean dry cloth.

Battery Replacement

Not Applicable