GENERAL

The CP-600DC-ID is a split core CT meant for operation with the Megger Power Quality Line of Instruments. This current clamp will measure both AC and DC current. This CT is NOT powered by the unit. This CT requires a 9V battery to operate.

NOTE: If using this CT with a PA-9 series power quality analyzer the PA-9 current full scale value MUST be set to 1000.

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.

Only use specified batteries as described by this document, if applicable.

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

Always connect the probe to the instrument prior to connecting to the source.

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

Working / Common Mode Voltage: 600Vrms

Current Range 1 to 600A

Scale 1mV / Amp

Load Impedance >100KΩ / 100pF

Bandwidth: DC to 10KHz @ -3dB

Accuracy:

400A Range 1 to 100A = 1.5% of reading +/− 1A

100 to 400A = 2% reading

600Adc Range 400 to 600A (DC ONLY) = 2.5% of reading

Phase Shift 1 to 200A ≤ 2.5°

200 to 400A ≤ 2.0°

Overload 2000Adc & 1000Aac Continuous up to 1kHz

Power Source 9V Alkaline Batteries NEDA 1604A, IEC 6LR61 (120-HR LIFE)

Jaw Opening 1.2 inches (31mm)

Dimensions 8.8x3.82x1.73" (224x97x44mm)

Weight 15oz (440g)

Operating Temperature -10 – 55C

Storage Temperature -40 – 80C

Humidity 10-35C 90% +/- 5% NC

40-55C 70% +/- 5% NC

IEC61010-2-032: 2012
EN50081-1 Class B
EN50082-2 Electrostatic Discharge; IEC61000-4-2
Radiated Field IEC61000-4-3
Fast Transient IEC61000-4-4
Magnetic Field 50/60Hz IEC61000-4-8
600V CAT III, Pollution Category 2

*Reference conditions: 23°C ±3°K, 20 to 75% RH, 48 to 65 Hz, external magnetic field < 40 A/m, no DC component, no external current carrying conductor, test sample centered. Load impedance 1MΩ.
OPERATING CONTROLS

Power Switch: The power OFF / 600 switch turns the CT on and off.

OPERATING INSTRUCTIONS

Installation

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

1. Connect the CT to Megger PQ device.

2. Set the power selector switch to the 600 position. Verify the ON lamp is illuminated green. If not then change the 9V alkaline battery in the CT. The battery is good for up to 120 hours.

NOTE If using this CT with a PA-9 series power quality analyzer the PA-9 current full scale value MUST be set to 1000.

3. View the current on the PQ Analyzer and use the CT’s zero adjustment knob to null out any offset.

4. Use the lever to open the jaw and place the CT around the source to be measured.

Removal

1. Use the lever to open the jaw and remove the CT from the source being measured.

2. Set the OFF / 600 switch to the OFF position. Failure to do so will drain the 9V battery in the current clamp.

3. Disconnect the CT from PQ Analyzer

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

Do not change batteries while the current clamp is installed around a conductor.

NOTE If using this CT with a PA-9 series power quality analyzer the PA-9 current full scale value MUST be set to 1000.

The crossed out wheeled bin placed on the batteries is a reminder not to dispose of them with general waste at the end of their life. This product contains alkaline batteries located in the NEMA housing. They can be safely removed by removing the screw on the back of the CT. Then replace the 9V alkaline battery and re-install the back cover of the CT.

Spent alkaline batteries are classified as Portable Batteries and should be disposed of in the UK in accordance with Local Authority requirements.

For disposal in the UK contact Megger Ltd.

For disposal of batteries in other parts of the EU contact your local distributor.

Megger is registered in the UK as a producer of batteries. The Registration number is BPRN01235.

Megger
2621 Van Buren Ave
Norristown, PA 19403-2329
610-676-8500
www.megger.com