GENERAL

The CP-20CE-ID is a split core CT meant for operation with the Megger Power Quality Line of Instruments. This current clamp will measure AC current up to 20Aac. This CT is a passive CT that does not require a power source.

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 Voltage: 600Vrms

Current Range

| Range  | 0.1 to 20A |

Scale

| Range     | 50mV / Amp |

Bandwidth:

| 40 to 10KHz |

Accuracy:

<table>
<thead>
<tr>
<th>Range</th>
<th>≤ 2.5% of reading</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.1 to 1A</td>
<td></td>
</tr>
<tr>
<td>1 to 20A</td>
<td>1.0% of reading</td>
</tr>
</tbody>
</table>

Phase Shift:

<table>
<thead>
<tr>
<th>Range</th>
<th>≤ 5°</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.1 to 1A</td>
<td></td>
</tr>
<tr>
<td>1 to 20A</td>
<td>3°</td>
</tr>
</tbody>
</table>

Overload

| 25A Continuous |

Power Source

| NA |

Jaw Opening

| 0.78” ID (19.8mm) |

Dimensions

| 5.47x2.0x1.18” (139x51x30mm) |

Weight

| 6.5oz (180g) |

Operating Temperature

| -10 – 55C |

Storage Temperature

| -40 – 70C |

Humidity

| 10-35C 85% NC |

IEC61010-2-032
EN50081-1 Class B
EN50082-2
Electrostatic Discharge IEC 61000-4-2
Radiated Field IEC61000-4-3
Fast Transient IEC61000-4-4
Magnetic Field at 50/60Hz IEC61000-4-8
600V CAT III, Pollution Category 2

*Reference conditions: 18°C to 28°C, 20 to 75% RH, external magnetic field <40 A/m, 48 to 65 Hz sine wave, distortion factor less than 1%, no DC component, no external current carrying conductor, test sample centered. Load impedance > 1MΩ.
OPERATING INSTRUCTIONS

Installation

1. Connect the CT to Megger PQ device.

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

NOTE: If using this CT with a PA-9 series power quality analyzer the PA-9 current full scale value MUST be set to 20.

Removal

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

2. Disconnect the CT from PQ Analyzer

MAINTENANCE

Have maintenance performed only by qualified service personnel.

Battery Replacement

NA

Cleaning and Decontamination

To ensure optimum performance, it is important to keep the probe jaw mating surfaces clean at all times. Failure to do so may result in error in readings.

To clean the probe jaws, use very fine sand paper (fine 600) to avoid scratching the jaw, then gently clean with a soft oiled cloth.

Megger

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