



DENT INSTRUMENTS CT-HMC-200-U 200A High Performance Midi Hinged Current Transformers Owner's Manual

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DENT INSTRUMENTS CT-HMC-200-U 200A High-Performance Midi Hinged Current Transformers



Product Information

The High-Performance Midi Hinged Current Transformers are medium amperage transformers designed for various applications such as current measurement, energy metering, load surveys, demand metering, energy research, and submetering. These transformers offer high performance and accuracy.

Key Specifications

- **Window Size:** 25mm (1.0")
- **Current Range Output:** 1 – 300 A AC
- **Output Voltage:** 333 mV @ 200 A AC
- **Ratio Error*:** (No information provided)

Ratio Error refers to the deviation in the transformation ratio of the current transformer.

Product Usage Instructions

To use the High-Performance Midi-Hinged Current Transformers, follow these steps:

1. Identify the appropriate window size for your application. The window size should be compatible with the size of the conductor or cable you are measuring.
2. Ensure that the current range output is suitable for your measurement requirements. The current range should be within the range of 1 to 300 A AC.
3. Connect the current transformer to the circuit or conductor you wish to measure. Ensure proper electrical

connections and follow all relevant safety guidelines.

4. Once connected, the transformer will provide an output voltage of 333 mV when the current through the conductor reaches 200 AAC.
5. If you need to calculate the actual current based on the output voltage, use the conversion factor of 1.67 mV/A AC. Multiply the output voltage by this factor to obtain the corresponding current value.
6. Monitor and record the measured current for your desired application, such as energy metering or load surveys.

Remember to consult the product manual for any additional instructions or safety precautions specific to your application.

The hinged “Midi” CTs are high-performance, medium amperage, hinged current transformers. Use for current measurement, energy metering, load surveys, demand metering, energy research, and submetering

KEY SPECIFICATIONS

- Window Size 25mm (1.0”)
- Current Range 1 – 300 A AC
- Output 333 mV @ 200 A AC 1.67 mV/A AC
- Ratio Error* <1.0 % from 1.0 A to 300 A AC (typical)
- Phase Error* <0.5° from 1.0 A to 300 A AC

For maximum performance, keep CT contact surfaces wiped clean and free of debris.

ELECTRICAL

- Output 333 mV @ 200 A
- Wire Polarity White = Hi, positive (+) Black = Low, negative (-)
- Phasing Arrow On Case Points
- Orientation Toward Load
- Frequency Range 50 to 400 Hz

MECHANICAL

- Case Material White Nylon, UL 94 V-0
- Leads 600V, 22 gage
- Operating Temperature -15 to 60°C (5 to 140°F)
- Storage Temperature -20 to 85°C (-4 to 185°F)

SAFETY

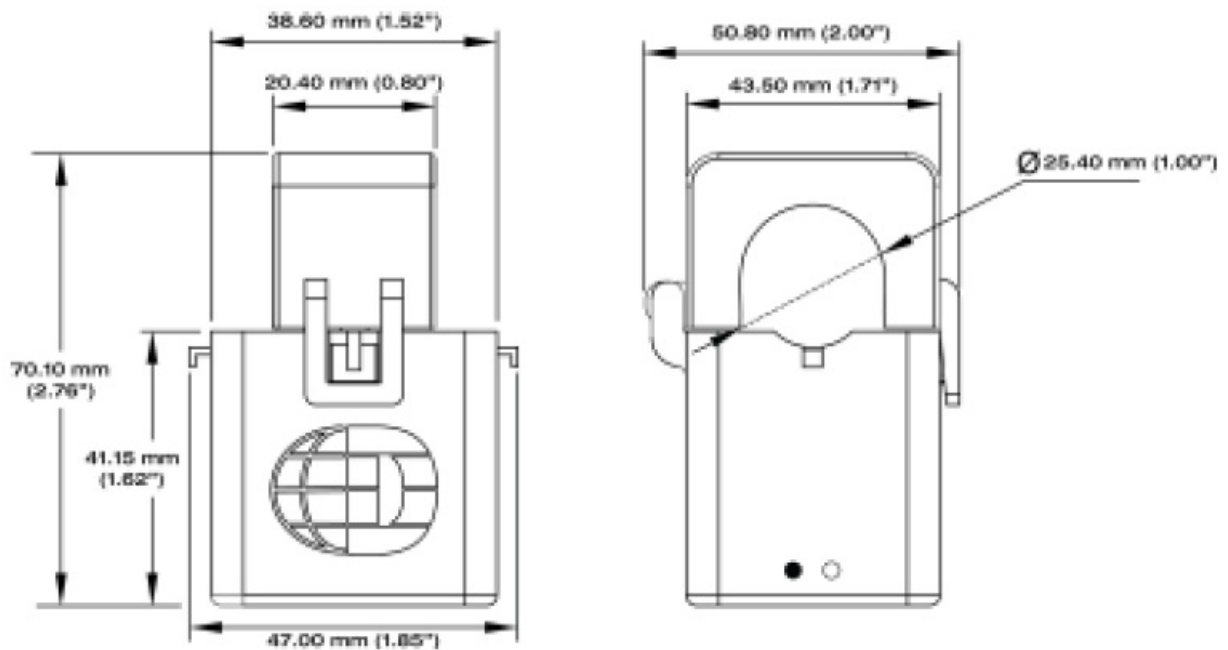
- Working Voltage 600 VAC, Category III
- Dielectric Strength 5200 VAC for 1 minute
- Safety Standards UL STD 61010-1 CAN/CSA STD C22.2 No. 61010-1

PART NUMBERS

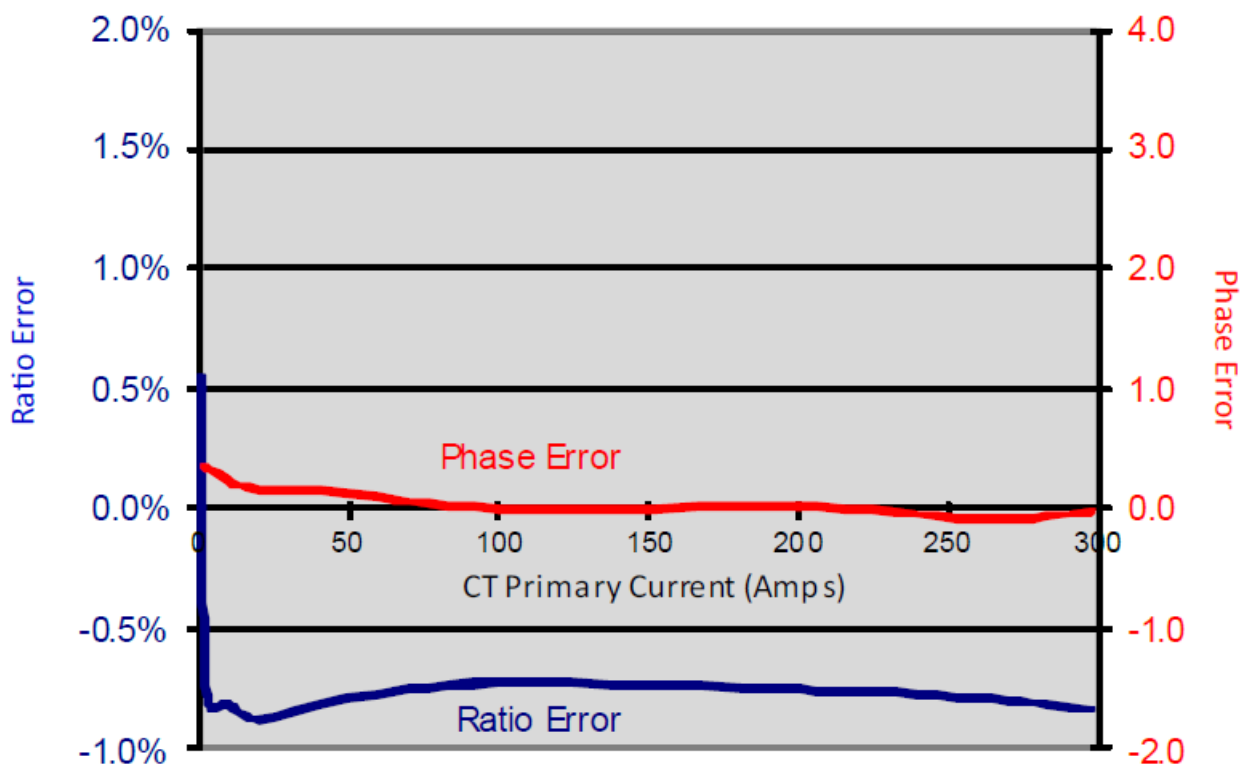
DENT Instruments, Inc.

Energy & Power Measurement Solutions

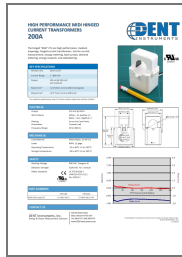
DIMENSION



FLOW CHART



Documents / Resources



[DENT INSTRUMENTS CT-HMC-200-U 200A High Performance Midi Hinged Current Transformers](#) [pdf] Owner's Manual

CT-HMC-0200-U-7M, CT-HMC-200-U 200A High Performance Midi Hinged Current Transformers, CT-HMC-200-U, 200A High Performance Midi Hinged Current Transformers, High Performance Midi Hinged Current Transformers, Midi Hinged Current Transformers, Hinged Current Transformers, Current Transformers, Transformers

References

- [Homepage - DENT Instruments](#)

Manuals+.