

333mV Coil CTs

Flexible Rope CT current sensor measuring AC current up to 5,000 amps. It provides an output of 0.070 volts AC at 1000 amps through the primary when operating at 60Hz (at 50 Hz the output is 58.33 mV per 1000 A). These CTs do not require an external integrator and are calibrated for use only with Triacta PowerHawk 4206 and 4224, and GATEWAY 3000 Series (333mV) energy management meters (minimum F/W revision V1.53).

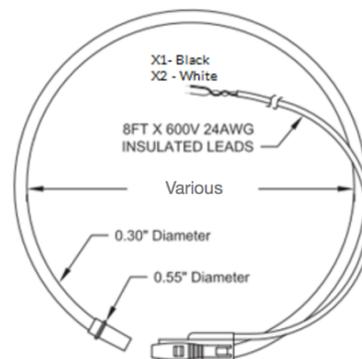
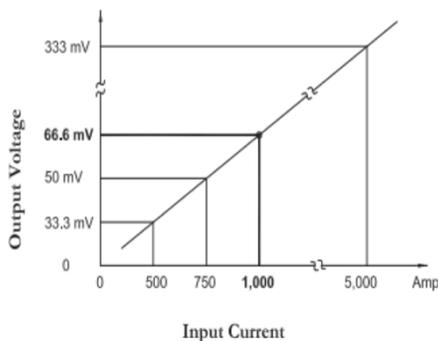


Product Numbers and Variants

Product Number	Product Name	Product Description
903-418-01	5000A:333mV Rogowski Coil 12"L (~3.8" aperture)	5000A:333mV split-core Rogowski Coil CT (12" length, ~3.8" aperture) ~1.00% accuracy with proper installation.
903-416-01	5000A:333mV Rogowski Coil 18"L (~5.7" aperture)	5000A:333mV split-core Rogowski Coil CT (18" length, ~5.7" aperture) ~1.00% accuracy with proper installation.
903-419-01	5000A:333mV Rogowski Coil 24"L (~7.6" aperture)	5000A:333mV split-core Rogowski Coil CT (24" length, ~7.6" aperture) ~1.00% accuracy with proper installation.
903-420-01	5000A:333mV Rogowski Coil 36"L (~11.4" aperture)	5000A:333mV split-core Rogowski Coil CT (36" length, ~11.4" aperture) ~1.00% accuracy with proper installation.
903-422-01	5000A:333mV Rogowski Coil 48"L (~15.2" aperture)	5000A:333mV split-core Rogowski Coil CT (48" length, ~15.2" aperture) ~1.00% accuracy with proper installation.

Features and Specifications

- Input Up to 5,000 Amps
- Output of 0.333 V at 5,000 A, 60 Hz
- 1% Accuracy from 20 to 5,000 Amps
- Phase angle < 0.5 degrees
- 4 ft Æ Insulated leads Rated 600V, 24AWG Insulation level: 600 Volt, 10 kV BIL full wave
- Maximum Voltage: 600 V (on bare conductor)
- Operating Temperature: -15Å°C to 65Å°C
- Storage Temperature: -45Å°C to 80Å°C
- UL Recognized E96927 to IEEE C57.13, CAN/CSA 60044-1
- Meets UL STD 61010-1, CAN/CSA C22.2 No. 61010



Installation

Caution: Proper safety precautions must be followed during installation by a trained electrician. Apply appropriate personal protective equipment (PPE) and follow safe electrical work practices. See NFPA 70E. Turn off all power supplying this equipment before working on or inside equipment. Always use a properly rated voltage sensing device to confirm power is off. Replace all devices, doors and covers before turning on power to this equipment. The meters must be connected to the sense voltage and control voltage through a properly rated disconnect. Failure to follow these instructions will result in death or serious injury.

1. Open the CT and place the conductor through the center opening. The label on the CT connector indicates the orientation CT in relation to the current source.
2. Securely close the CT ensuring you do not damage the connector and outer jacket.
3. Secure in place as needed with nonconductive materials only.
4. Connect the X1/X2 lead wires from the CT to the proper wire pair or terminal block as indicated by the Triacta PowerHawk Meter Installation Guide.
5. Using the PowerHawk Configuration Tool, enable the coil CT integration function for the meter points that the CTs are connected to as per the PowerHawk Multi-Circuit Meters Configuration Guide.

Note: To achieve maximum accuracy, install the CT such that the conductor passes directly through the center of the CT (Fig. 1). The next best method of placement is to hang the CT off of the conductor with the conductor passing through positions 2, 1, and 4 as indicated in Fig. 3, and with the black connector away from the conductor as shown in Fig. 2. This will keep the linearity to near +/-1% error.

Fig 1.



Fig 2.

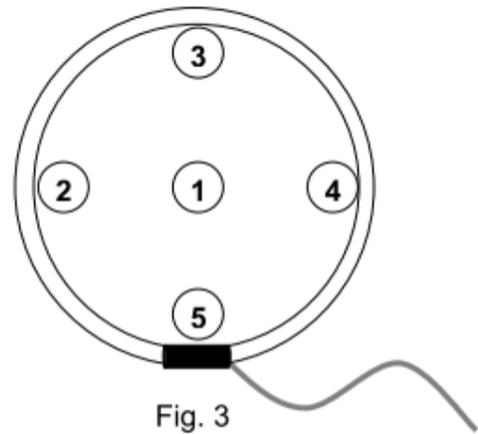
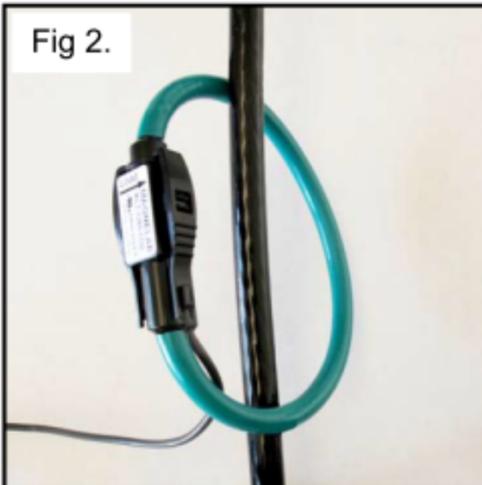


Fig. 3

	Position	Error
1	Centered in loop	<0.25%
2,3,4	Near outer edge	< 2.0%
5	Near connector	<5.0%