

Split-Core Current Transformers

Features

- Split core for easy installation; ideal for retrofit
- No exposed metal parts when assembled
- 0.333 VAC output at rated current
- Safer to install and use than CTs with a current secondary
- UL and CE recognized, and RoHS compliant

Description

These split-core current transformers (CTs) from Continental Control Systems offer an easy, safe, and inexpensive method for monitoring electrical energy usage.

Ideal for retrofit applications, the split core makes it possible to attach the CT without disturbing existing wiring. Just open the CT, slip it over the wire, and snap the CT closed. Once assembled, the CTs have no exposed metal parts.

The 0.333 VAC output of these CTs is low, making them much more safe to install and use than CTs with current secondaries. Voltage CTs are also less expensive than their current cousins.

While somewhat less accurate than CTs with a current secondary and therefore not designed for metering applications where high accuracy is necessary for billing purposes, these CTs are accurate to $\pm 1\%$ from 10% to 130% of rated current. This level of accuracy is well suited to energy monitoring applications.

Each CT has an internal precision burden resistor across the secondary and is core interleaved at joints for accuracy. Phase angle is measured at 50% of rated current. Each CT has an epoxy-encapsulated housing and includes 8 ft (2.4 m), twisted-pair, 22 AWG leads.

See specifications and dimensions on the following page.

Monitoring Energy

These split-core CTs are recommended for use with the OptoEMU Sensor™, part of the OptoEMU™ Energy Monitoring System.

The OptoEMU Sensor is a simple appliance that uses your existing wired or wireless Ethernet network to monitor the electrical energy used in your facility and then deliver that data to online software applications. You can see real-time and



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historical use, eliminate guesswork, and pinpoint problem areas to reduce energy costs.

For more information, see form #1936, the *OptoEMU Sensor Data Sheet*.

Part Numbers

Part	Description
OPTOEMU-CTS-0750-70	Current Transformer, Split Core, 0.333V, 70A, 0.75 inch (1.91 cm) Inner Diameter
OPTOEMU-CTS-0750-150	Current Transformer, Split Core, 0.333V, 150A, 0.75 inch (1.91 cm) Inner Diameter
OPTOEMU-CTS-1250-400	Current Transformer, Split Core, 0.333V, 400A, 1.25 inch (3.18 cm) Inner Diameter
OPTOEMU-CTS-2000-600	Current Transformer, Split Core, 0.333V, 600A, 2 inch (5.08 cm) Inner Diameter

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Specifications

Refer to dimensional diagram below.

	OPTOEMU-CTS-0750-70	OPTOEMU-CTS-0750-150	OPTOEMU-CTS-1250-400	OPTOEMU-CTS-2000-600
Rated Current (primary)	70 amps	150 amps	400 amps	600 amps
Output (secondary)	0.333 VAC	0.333 VAC	0.333 VAC	0.333 VAC
Dimension A (width)	2.00 in. (5.08 cm)	2.00 in. (5.08 cm)	3.25 in. (6.45 cm)	4.75 in. (12.1 cm)
Dimension B (depth)	2.10 in. (5.33 cm)	2.10 in. (5.33 cm)	3.35 in. (8.51 cm)	5.00 in. (12.7 cm)
Dimension C (height)	0.61 in. (1.55 cm)	0.61 in. (1.55 cm)	1.00 in. (2.54 cm)	1.20 in. (3.05 cm)
Inner Diameter (D, E)	0.75 in. (1.91 cm)	0.75 in. (1.91 cm)	1.25 in. (3.18 cm)	2.00 in. (5.08 cm)
Accuracy	± 1% from 10% to 130% of rated current	± 1% from 10% to 130% of rated current	± 1% from 10% to 130% of rated current	± 1% from 10% to 130% of rated current
Agency Approvals	UL, CE, RoHS	UL, CE, RoHS	UL, CE, RoHS	UL, CE, RoHS
Warranty*	3 years*	3 years*	3 years*	3 years*

* Original manufacturer's warranty applies. See <http://www.ccontrols.com/w/Warranty>

