

# Current Transformers—333mV

## Submetering Solutions for Accurate Measurement & Verification

For use with VerifEye™ Series 4000 and 7000 Meter Lines Only



CTV01/02/04/08



CTV01/02/04/08



CRV50



CDV01-W15/CDV02-W20

### Description

Leviton 333mV Current Transformers (CTs) support the Series 4000 and Series 7000 meter lines of revenue-grade meters and help meet all measurement and verification-based opportunities, including smart metering and LEED rating achievement. Designed as part of a simple and effective process for accurately capturing measurements of power consumption, CTs are easy to specify and install for new construction and retrofits.

The better the equipment, the better the measurement. Leviton meters utilize highly accurate current transformers for revenue-grade performance certified to ANSI and NEMA standards. Solid core CTs are standard for high-quality, long-term accuracy and reliability. Leviton CTs are UL and cUL listed devices.

### Solid Core

Leviton solid core CTs are cost effective and less susceptible to damage during installation. Solid core CTs slip over power lines to measure the electrical current flowing through the line. The CT “secondary” wires connect to the meter facilitating power and energy calculations. They are compact and cost effective. Solid core CTs are accurate (0.2% maximum error). For installation, power must be de-energized and the circuit opened in order to slip the CT over the power line.

### Split Core

Split core CTs can be opened or ‘split’, eliminating the need to turn power off and open the circuit during installation. This time-saving installation is ideal for critical loads that cannot be disconnected.

### Split Core - continued

Leviton split core CTs are designed to close and lock to ensure a secure, fast and precise installation with no need for time-consuming tie wraps and no worries about improper seating or core separation.

- Indoor type for measurement category Class IV, accessory equipment for energy meters
- Designed to meet the requirements of UL916 plus CSA C22.2 No. 61010-1
- Suitable for installation on 600V uninsulated bus duct

### Rogowski Coil

Rogowski Coil CTs are flexible rope style CTs with high amperage ranges from 50-5000A. The coil opens at the connector junction for fast and easy installation into an existing cable or bus bar. The Rogowski Coil’s flexible core is ideal for tight enclosures and odd-sized conductors with three length options: 12”, 16”, 18” and 24”. Rogowski Coil CTs are for use with VerifEye Series 4000 and 7000 Industrial ModBus and BACnet Meters.

**Note:** Leviton recommends solid core transformers (CTs) for revenue-grade accuracy. Split core CTs are also available for applications where power cannot be interrupted during installation.

### Applications

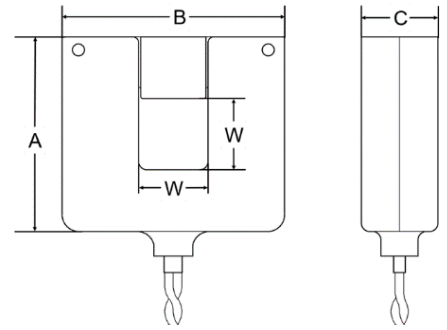
Use current transformers in commercial, institutional, industrial and government applications to support:

- Load profiling and benchmarking
- AMR/BAS/BMS/EMS integration
- Power quality analysis
- Usage aggregation
- Tenant cost allocation
- Measurement and verification
- Net metering
- Energy conservation and cost reduction
- Green building initiatives and government mandates

## Dimensional Diagrams

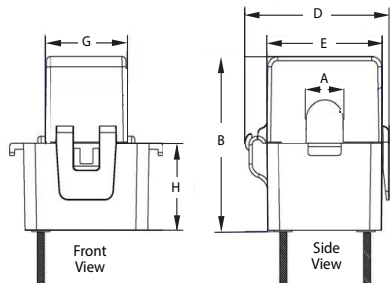
### Split Core-for use with Series 4000 & 7000 ModBus & BACnet Meters

Basic No.	CT Size	A	B	C	Window
CTV01	100A:333mV	3.24" (82.4mm)	2.87" (72.9mm)	1.11" (28.2mm)	1.0" (25.4mm)
CTV02	200A:333mV	3.24" (82.4mm)	2.87" (72.9mm)	1.11" (28.2mm)	1.0" (25.4mm)
CTV04	400A:333mV	3.22" (81.7mm)	3.31" (84mm)	1.14" (28.9mm)	1.25" (31.7mm)
CTV08	800A:333mV	7.89" (200.4mm)	6.08" (154.4mm)	1.50" (38.1mm)	3.0X3.5" (76.2x88.9mm)

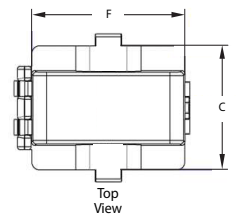
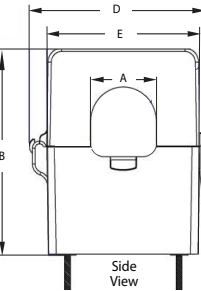
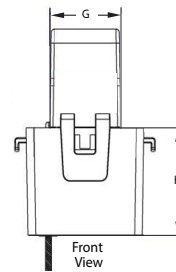
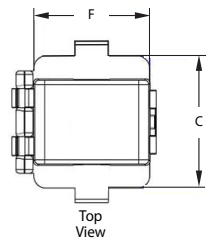


### Hinged Split Core-for use with Series 4000 & 7000 ModBus & BACnet Meters

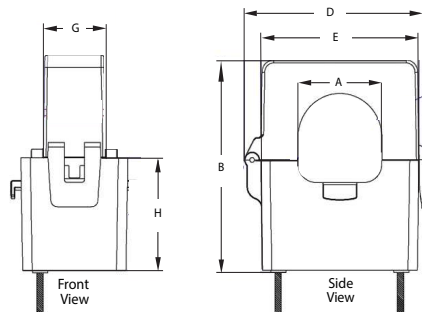
Basic No.	CT Size	A	B	C	D	E	F	G	H
CTV5X-WA4	50A:333mV	.43" (11mm)	1.99" (50.5mm)	1.48" (37.7mm)	1.70" (43.3mm)	1.37" (34.8mm)	1.37" (34.9mm)	0.97" (24.6mm)	0.98" (24.9mm)
CTV01-WC9	100A:333mV	.94" (24mm)	2.86" (72.7mm)	1.70" (43.2mm)	2.54" (64.5mm)	2.20" (56mm)	2.21" (56.1mm)	1.03" (26.1mm)	1.47" (37.4mm)
CTV02-WC9	200A:333mV								
CTV04-WD5	400A:333mV	1.42" (36mm)	3.41" (86.6mm)	1.77" (45mm)	3.03" (76.9mm)	2.68" (68mm)	2.68" (68mm)	1.03" (26.2mm)	1.76" (44.8mm)



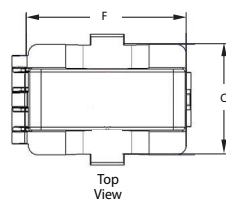
CTV5X-WA4



CTV01-WC9 / CTV02-WC9

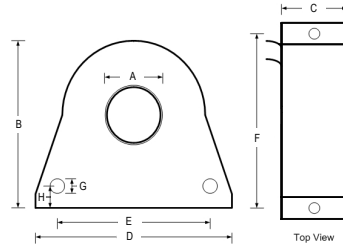


CTV04-WD5

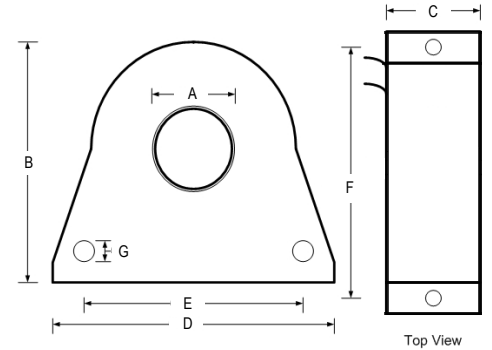


**Dimensional Diagrams - continued**  
**Solid Core**

Cat. No.	CT Size	A	B	C	D	E	F	G	H
CDV01-W15	100A:333mV	0.60" (15.0mm)	1.78" (45.0mm)	0.91" (23.0mm)	2.28" (58.0mm)	1.58" (40.0mm)	1.89" (48.0mm)	0.16 (4.0mm)	0.37" (9.5mm)
CDV02-W20	200A:333mV	0.78" (20.0mm)	2.28" (58.0mm)	0.87" (22.0mm)	2.68" (68.0mm)	1.97" (50.0mm)	2.28" (58.0mm)	0.20" (5.5mm)	-



CDV01-W15

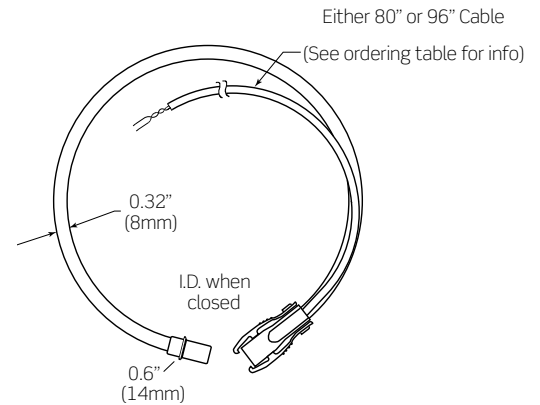


CDV02-W20

**Rogowski Coil\***

Basic No.	Length	Inside Diameter With Closed Connector
CRV50	12" (305mm)	3.85" (98mm)
CRV50	16" (406mm)	4.5" (115mm)
CRV50	18" (458mm)	5.75" (147mm)
CRV50	24" (610mm)	7.65" (195mm)

\* Rogowski Coils are designed for use with specific meters. See the Ordering Information chart for meter compatibility.



**Ordering Information**

NOTE: Meters sold separately

Amp	Opening Dimensions	Lead Length	Cat. No.	Accuracy	Description
<b>Solid Core CTs For Use With All 333mV Meters*</b>					
100A	0.60"	144"	CDV01-002-W15	0.2%	Solid Core
200A	0.78"		CDV02-002-W20		
<b>Split Core CTs For Use With All 333mV Meters</b>					
100A	1.0"	144"	CTV01-KD0	0.5%	Split Core
200A	1.0"		CTV02-KD0		
400A	1.25"		CTV04-KD1		
800A	3.0x3.5"		CTV08-KG1	1.0%	
50A	.40"		CTV5X-WA4	0.5%	Hinged Split Core
100A	.94"		CTV01-WC9		
200A	.94"		CTV02-WC9		
400A	1.42"		CTV04-WD5		
<b>Rogowski Coil CTs For Use With Series 4000 Meter Line Only**</b>					
50-5000A	12"	96"	CRV50-K62	1.0%	Rogowski Coil CT
50-5000A	18"		CRV50-K93		
50-5000A	24"		CRV50-KC2		
<b>Rogowski Coil CTs For Use With Series 7000 Meter Line Only***</b>					
5-4000A	16"	80"	CRV50-LR2	0.6%	Rogowski Coil CT
5-4000A	24"		CRV50-LR4		

\*333mV solid core CT leads can be extended to 200'

\*\*Series 4000 Meter Line Rogowski CT leads can be extended up to 20'

\*\*\*Series 7000 Meter Line Rogowski CT leads can be extended up to 100'

**The following products are also part of the Leviton line of VerifEye integrated metering solutions:**

- Mini Meters
- Series 1000 Meters
- Series 2000 Meters
- Series 3500 Meters
- Series 4000 Industrial ModBus & BACnet Meters
- Series 7000 Meters
- Series 8000 Meters
- Multiple Meter Units (MMUs)
- Building Manager Online (BMO)

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