

Current Transformers

Submetering Solutions for Accurate Measurement & Verification



DEFINITION

Leviton Current Transformers (CTs) support our full line 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 standards. Competing products use current sensors that do not provide the same level of performance. CTs come as solid core standard for high-quality, long-term accuracy and reliability. Solid core CTs deliver $\pm 0.3\%$ accuracy. Split core CTs deliver $\pm 1.0\%$ accuracy. For added safety, all Leviton current transformers come with built-in voltage suppression devices that prevent hazardous voltages from developing on CT secondaries should they become disconnected from a meter with load current present. 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 (0.3% 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 disassembled, or ‘split’ into halves, 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 CTs close securely for fast, precise installation with no need for time-consuming tie wraps and no worries about improper seating or core half 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 un-insulated bus duct

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

PRODUCT DATA



ORDERING INFORMATION

NOTE: Meters sold separately.

AMP	CAT. NO.	DESCRIPTION
SINGLES		
SOLID CORE		
100:0.1A	CDA01-K12	Solid Core 0.72", Black
100:0.1A	CDA01-L12	Solid Core 0.72", Blue
100:0.1A	CDA01-R12	Solid Core 0.72", Red
200:0.1A	CDA02-K12	Solid Core, 0.72", Black
200:0.1A	CDA02-L12	Solid Core, 0.72", Blue
200:0.1A	CDA02-R12	Solid Core, 0.72", Red
100:0.1A	CDE01-K11	Solid Core, 0.67", Black
100:0.1A	CDE01-L11	Solid Core, 0.67", Blue
100:0.1A	CDE01-R11	Solid Core, 0.67", Red
200:0.1A	CDE02-K11	Solid Core, 0.67", Black
200:0.1A	CDE02-L11	Solid Core, 0.67", Blue
200:0.1A	CDE02-R11	Solid Core, 0.67", Red
400:0.1A	CDF04-K24	Solid Core, 1.5", Black
SPLIT CORE		
800:0.1A	CTC08-K46	Split Core, 3" x 3.5"
1200:0.1A	CTC12-K46	Split Core, 4" x 6"
1600:0.1A	CTC16-K96	Split Core, 4" x 6"
3000:0.1A	CTC30-57B*	Split Core, 5" x 7"
5000:0.1A	CTC50-57B*	Split Core, 5" x 7"
100:0.1A	CTD01-K16	Split Core, .75" x .75"
200:0.1A	CTD02-K16	Split Core, 1" x 1"
400:0.1A	CTD04-K23	Split Core, 1.5", x 1.5"

AMP	CAT. NO.	DESCRIPTION
KITS		
100:0.1A	CDA01-212	CT Kit, 0.72", Red, Black
100:0.1A	CDA01-312	CT Kit, 0.72", Blue, Red, Black
200:0.1A	CDA02-212	CT Kit, 0.72", Red, Black
200:0.1A	CDA02-312	CT Kit, 0.72", Blue, Red, Black
100:0.1A	CDE01-211	CT Kit, 0.67", Red, Black
100:0.1A	CDE01-311	CT Kit, 0.67", Blue, Red, Black
200:0.1A	CDE02-211	CT Kit, 0.67", Red, Black
200:0.1A	CDE02-311	CT Kit, .067", Blue, Red, Black

*Consult factory for availability.

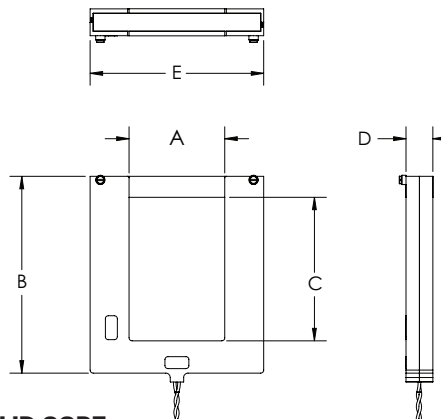
Leviton recommends solid core transformers (CTs) for revenue-grade accuracy. Our 100A and 200A color coded CTs assist with correct installation by indicating phase monitored. Split core CTs are also available upon request for applications where power cannot be interrupted during installation. Our 100-5,000 Amp Split Core CTs offer +/-1.0% accuracy.

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

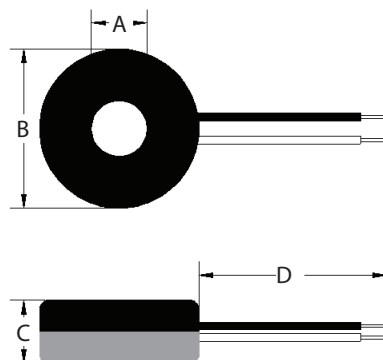
Series 1000 Meters
Series 2000 Meters
Series 33000 and 3500 Meters
Mini Meters
Multiple Meter Units (MMUs)
Energy Monitoring Software and Hardware

DIMENSIONAL DIAGRAMS

SPLIT CORE



SOLID CORE



SPLIT CORE

CT Size	A	B	C	D	E
100:0.1A	0.75" (19.05mm)	2.53" (64.16mm)	0.75" (19.05mm)	0.95" (24.13mm)	2.58" (65.53mm)
200:0.1A	1.00" (25.4mm)	2.86" (72.64mm)	1.00" (25.4mm)	0.75" (19.05mm)	2.75" (69.85mm)
400:0.1A	1.50" (38.1mm)	3.31" (84.07mm)	1.50" (38.1mm)	1.07" (27.18mm)	3.74" (95mm)
800:0.1A	3.00" (76.2mm)	5.38" (136.65mm)	3.50" (88.9mm)	1.25" (31.75mm)	5.39" (136.91mm)
1200:0.1A	4.00" (101.6mm)	8.23" (209.04mm)	6.00" (152.4mm)	1.12" (28.45mm)	7.25" (184.15mm)
1600:0.1A	4.00" (101.6mm)	8.23" (209.04mm)	6.00" (152.4mm)	1.12" (28.45mm)	7.25" (184.15mm)
3000:0.1A	5.00" (127mm)	9.86" (250.44mm)	7.00" (177.8mm)	1.44" (36.58mm)	8.44" (214.38mm)
5000:0.1A	5.00" (127mm)	9.86" (250.44mm)	7.00" (177.8mm)	1.44" (36.58mm)	8.44" (214.38mm)

SOLID CORE

CT Size	A	B	C	D
100:0.1A & 200:0.1A 0.67"	0.67" (17mm)	1.65" (42mm)	0.71" (18mm)	48.00" (1219mm)
100:0.1A & 200:0.1A 0.72"	0.72" (18.3mm)	2.06" (52.3mm)	0.82" (20.8mm)	48.00" (1219mm)

NOTE: Lead lengths may be extended up to 500'. Consult factory for details.

Leviton Mfg. Co., Inc. Lighting & Energy Solutions

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