









Current Transformers

Solid Core | Split Core | Hinged Core | Flexible Rope

GridPoint Current Transformers (CTs) capture electrical data from either individual loads (submetering) or building main load to provide detailed insight about energy usage. Our CTs are available in a variety of physical forms, amperage ratings, and accuracies to accommodate a wide range of installation needs. Options include:

- Solid Core Window CTs**
 A Solid Core CT is used when the circuit to be monitored can be interrupted during installation or a higher degree of accuracy is needed. GridPoint offers Solid Core CTs that measure currents from 5 Amps to 20 Amps.
- Split Core Window CTs**
 A Split Core CT is used when the circuit to be monitored cannot be interrupted during installation. GridPoint offers Split Core CTs that measure currents from 20 Amps to 3,000 Amps.
- Hinged Core CTs**
 A Hinged Core CT is used when installation space is limited. GridPoint offers Hinged Core CTs that measure currents from 20 Amps to 200 Amps.
- Flexible Rope CTs**
 Flexible Rope CTs are used to capture electrical loads when a Split Core CT will not fit around the electrical service or into a congested panel. GridPoint offers Flexible Rope CTs that measure currents up to 4,000 Amps.

CT Overview

Current Rating	Core Type	Uses	
5A 20A	Solid core window	Submetering small loads such as utility CTs	
20A 50A 100A 150A	Split core window	Submetering such as HVAC, lighting, refrigeration, etc.	
400A 600A	Split core window	Submetering of larger loads and monitoring of total building loads	
1000A 3000A	Split core window	Monitoring of total building loads	
20A 50A 100A 200A	Hinged core	Submetering multiple loads within a small space	
500A 1000A 2000A 2500A 4000A	Flexible ropes	Submetering of total building loads with limited space around large service conductors	



Hardware



Software



Services

Solid Core | Split Core | Hinged Core | Flexible Rope - Features and Specifications

Current Rating	5A 20A	20A 50A 100A 150A	400A 600A	1000A 3000A	20A 50A 100A 200A	500A 1000A 2000A 2500A 4000A
Core type	Solid core window	Split core window	Split core window	Split core window	Hinged core	Flexible ropes
Output rating	0.333 Vac at rated current	0.333 Vac at rated current	0.333 Vac at rated current	0.333 Vac at rated current	0.333 Vac at rated current	0.333 Vac at rated current
Physical size	1.7" diameter x 0.8" D	2.1" H x 2.0" W x 0.6" D	3.4" H x 3.3" W x 1.0" D	7.5" H x 5.0" W x 1.2" D	1.0" H x 1.2" W x 1.6" D and 1.9" H x 1.9" W x 2.8" D	16" to 24" long
Window size	0.3" diameter	0.8" H x 0.8" W	1.3" H x 1.3" W	5.0" H x 3.0" W	0.4" H x 0.4" W and 1.0" H x 1.0" W	Flexible
Leads	8 feet twisted pair, 24 AWG	8 feet twisted pair, 20 AWG	8 feet twisted pair, 20 AWG	8 feet twisted pair, 22 AWG	8 feet twisted pair, 20 and 22 AWG	6.6 feet shielded cable
Voltage rating	600 Vac	600 Vac	600 Vac	600 Vac	600 Vac	600 Vac
Accuracy	±1% at 10% to 130% of rated current; phase angle <1 degree at 50% rated current	±1% at 10% to 130% of rated current; phase angle <2 degrees at 50% rated current	±1% at 10% to 130% of rated current; phase angle <2 degrees at 50% rated current	±1% at 10% to 130% of rated current; phase angle <2 degrees at 50% rated current	<0.5% at rated current and <1.0% at rated current	1% typical at 2% to 500% of rated current
Mechanical	Epoxy encapsulated housing	Epoxy encapsulated housing	Epoxy encapsulated housing	Epoxy encapsulated housing	White nylon housing	Thermoplastic rubber
Certifications and compliance	<ul style="list-style-type: none"> • UL recognized • CE • RoHS 	<ul style="list-style-type: none"> • UL recognized • CE • RoHS 	<ul style="list-style-type: none"> • CE • RoHS 	<ul style="list-style-type: none"> • UL recognized • CE • RoHS 	<ul style="list-style-type: none"> • UL recognized • CE • RoHS 	<ul style="list-style-type: none"> • CE • RoHS
Auxiliary power for common electronic unit	N/A	N/A	N/A	N/A	N/A	9 to 12 Vdc at 75mA max
Operating temperature	N/A	-4° F to 131° F	-4° F to 131° F	N/A	5° F to 140° F	14° F to 131° F