



CT METER

75A, 250A, 630A, 1000A, 3000A

The primary role of these CTs is to detect and quantify the current flowing through a device. By doing so, they can offer invaluable insights into the device's power consumption, operational health, and efficiency. Once the CT detects the current, it transforms this data into a format that can be safely and conveniently sent back to a centralized system, referred to as the "gateway" in this context. The gateway acts as a hub, collecting data from multiple CTs or other sensors.



CORE FEATURES



LORA™ WIRELESS



**5 MIN DATA - 5 YEAR LIFESPAN
15 MIN DATA - 2 YEAR LIFESPAN**



THREE PHASE METER



CLAMP-ON TRANSFORMER



**MAGNETIC BASE FOR
EASY ATTACHMENT**

*We offer 5 versions of CT Meters:
75A, 250A, 630A, 1000A, 3000*





ELECTRIC

Input Power	2 x 3.6V ER14505 AA Size lithium batteries (3.6V2400mah/section)
Standby Current	25 uA
Receiving Current (Max)	11 mA @3.3V
Transmitting Current	127 mA/3.3V
Battery Measurement Accuracy	±0.1V
Pulse Resolution	>50 mA
Current Measurement Range	<p>75A CT: 100mA to 75A 250A CT: 1A to 250A 630A CT: 10A to 630A 1000A CT: 10A to 1000A 3000A CT: 150A to 3000A</p> <p><i>No data will be detected if current is less than the minimum rating.</i></p>

FREQUENCY

Frequency Range	US 902-928 (MHz)
TX Power	US915 20
Receiving Sensitivity	-136 (LoRa, Spreading Factor=12, Bit Rate=293bps) -121dBm (FSK, Frequency deviation=5kHz, Bit Rate=1.2kbps)
Antenna Type	Built-in antenna
Range	Up to 10km Unobstructed
Data Transfer Rate	LoRa: 0.3kbps ~ 50kbps FSK: 1.2kbps~300kbps
Modulation	LoRa/FSK (You choose one)
Supportable LoRaWAN Band	US 902-928 (MHz)





CURRENT TRANSFORMER PARAMETERS

Rated Primary Current	75A CT: 30A 250A CT: 200A 630A CT: 300A 1000A CT: 1000A 3000A CT: 3000A @ 50Hz - 60Hz
Rated Secondary Current	75A CT: 10mA 250A CT: 66.66mA 630A CT: 50mA 1000A CT: 500mA 3000A CT: 500mA
Transformation Ratio	75A CT: 3000:1 250A CT: 3000:1 630A CT: 6000:1 1000A CT: 2000:1 3000A CT: 6000:1
Load Resistance	75A CT: 10Ω 250A CT: 10 Ω 630A CT: 10 Ω 1000A CT: 0.36Ω 3000A CT: 0.3Ω
Accuracy	1% 1000A: 0.5%
Isolation Withstand Voltage	3000V 1000A CT: 2000V/0.3mA/3s 3000A CT: AC3KV/3mA/3s
Housing Material	Flame Retardant Grade 94-V0 UL Material
Environmental Protection	ROHS compliant 1000A: ROHS Compliant, CE/UL certified 3000A: GB20840, IEC60044-1GB20
Operating Temperature	-40°C – 85°C 1000A CT: -40 °C – 50 °C 3000A CT: -25°C ~ + 50°C





PHYSICAL

Dimensions (LxWxH)

Host body: 112 x 88.19 x 32 mm
 Sensor: 84.8 x 40.8 x 48mm
Sensor dimension varies depending on CT Sizing. 3000A CTs are significantly larger.

Weight

141 g

Sensor Weight

About 365.4 x 3 g
Sensor weight varies depending on CT Sizing. 3000A CTs are significantly heavier.

Sensor External Wiring Length

~900 mm

Environmental Temperature Range

-20°C to 55°C

Storage Temperature Range

-40°C to 85°C

Environmental Humidity Range

<90% RH (No Condensation)

Mounting

Screw / Magnet

