

The HotDrop

Self-Powered, LoRaWAN connected electrical meter



Device Features

- Real-time energy use data acquisition
- Long range wireless communication
- Clean installation – no wires or batteries
- Fast installation - less than 5 seconds
- Solar and battery inverter integrations
- Web and phone apps for visualization
- Mobile phone configuration
- Encrypted private network

The HotDrop is a patent-pending advanced wireless current transformer (CT) with built-in data acquisition technology that needs no wires or batteries, and completely installs in less than 20 seconds. With its next-generation wireless radio, it is capable of transmitting over 10 kilometres line-of-sight, and through the most difficult of environments to provide accessible, real-time energy data. HotDrop's incredibly small form factor also allows it to fit in the tightest of spaces, and its real-time reporting ensures accurate installations.

The HotDrop is built for scale and includes encrypted communication for enhanced privacy and security, remote configuration for adapting and updating to different environments, cell phone pairing for rapid on-boarding, and even 3-phase wireless teaming for industrial and utility-grade installations.

The HotDrop is available in multiple energy rating versions to solve the smallest to the largest challenges in energy monitoring.

<https://Tether.co.nz>



The Core is the brain and transmitter of any meter that it connects to. The Core can be swapped between various devices built to measure utilities such as electricity, water and gas.

The Core is Portable, Versatile, Durable, Secure and Reliable.

The Core Specifications

PHYSICAL

Size	15.90 x 30.80 x 35.0 mm
Weight	42.5g – 227g (Varies by model)
Power Supply	5 VDC 10mA Pogo interface or micro USB

COMMUNICATION

Sampling Rate	Up to 6,000 samples per second
Data Reporting Rate	1/min (standard), 15-min (optional)
ISM Radio	LoRaWAN: US 902 MHz - 928 MHz Global frequencies supported
Bluetooth	Bluetooth: BLE 5.0; 2.4 GHz
Security	Triple cipher AES rotating encryption

ENVIRONMENT

Enclosure	Indoor rated. Outdoor weatherproof models available.
Operating Temperature	-40 to +85 degrees Celsius

The HotDropXL



The HotDrop



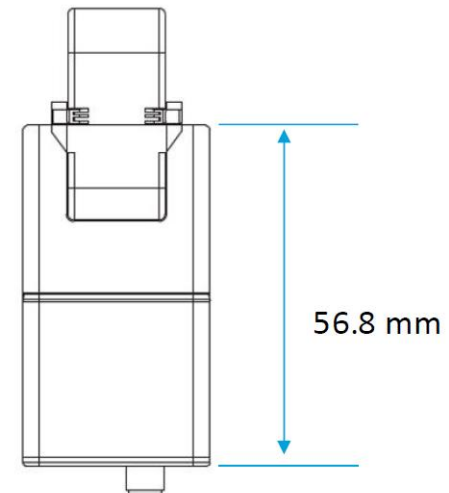
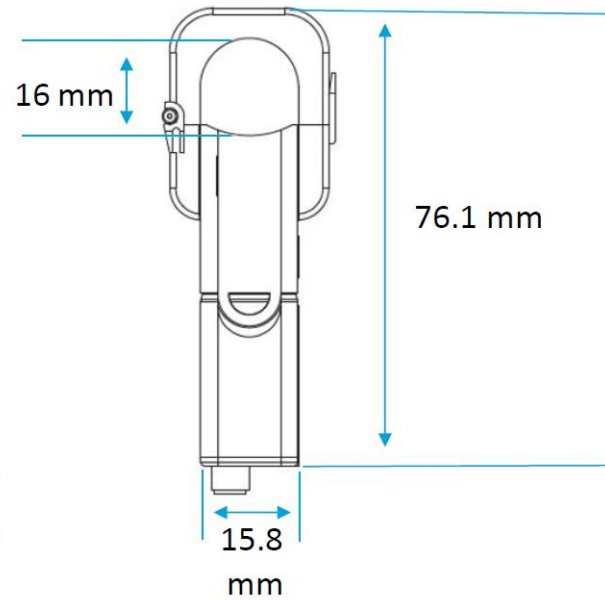
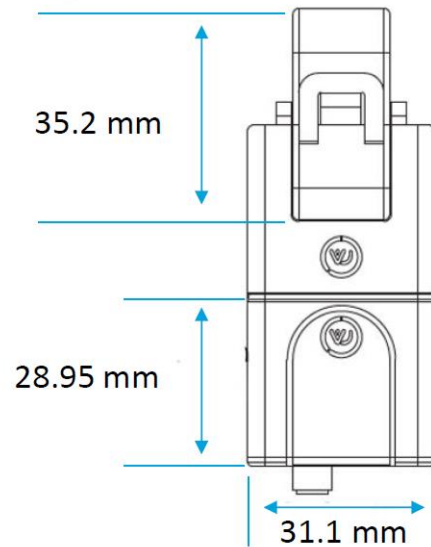
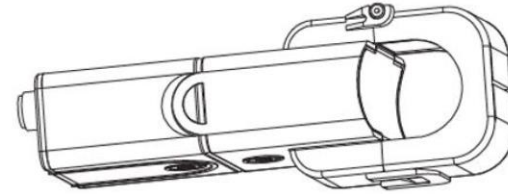
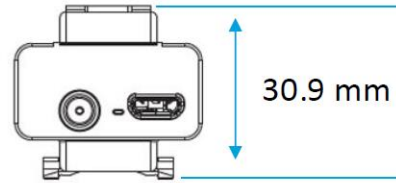
The HotDrop and HotDropXL are current transformers (CT) that attach the CORE. The CORE can seamlessly snap onto any HotDrop or HotDropXL in a matter of seconds. The size of the current flowing through the wire or bus bar you wish to monitor and measure will determine which HotDrop you select.

HotDrop Specifications

PHYSICAL

Meter	TheCORE
Service Types	Wires/Cables, Bus Bars
Ranges	Wires: Up to 300A, Bus Bars: Up to 5,000A
Accuracy	Wires: 0.3%, Bus Bars: 0.5%
Operating Temperature	-40 to +85 degrees Celsius
Sampling	Up to 6,000 samples per second
Power	Inductive
Differentiators	No Wires, No Batteries, No Maintenance

Dimensions of the HotDrop and CORE combined





HotDrop XL Dimensions (mm)	
HotDrop	Window Size
Up to 400A	31.75 x 31.75
Up to 1000A	50.8 x 50.8
Up to 1500A	78.74 x 88.9
Up to 5000A	104.14 x 154.94