

4-CHANNEL AC CURRENT METER

LORAWAN, NB-IOT & LTE-M VERSIONS



KEY FEATURES

- ◆ **Multiple Channel Metering:** Supports 4 Detachable CT Clamps (100 A/50 mA, 300 A/50 mA, 600 A/50 mA) *Sold Separately
- ◆ **Supports Multiple Backhauls:** Offers various network communication methods, LoRaWAN Global Frequency Bands, NB-IoT, CAT-M1 or LTE-M for cellular communication.
- ◆ **On-Demand Location:** Features a user-activated button to send real-time GPS location data on demand, adding a layer of control and security.

DEVICE OVERVIEW

The **ioX-Connect 4-Channel AC Current Meter End Node** converts up to four CT clamp inputs into real-time current data and streams it via **LoRaWAN, NB-IoT, CAT-M1 or LTE-M** to the ioX-Connect device management or enterprise platforms. Ideal for monitoring machine run times, tracking operational hours, and analyzing power consumption trends, this end node supports multiple CT clamp ratios (100 A/50 mA, 300 A/50 mA, 600 A/50 mA) for flexible deployments.

Its ultra-low-power design and 8500 mAh Li-SOCl₂ battery enable years of maintenance-free operation. Configure current alarms, visualize usage trends, and perform over-the-air firmware updates—all through ioX-Connect.

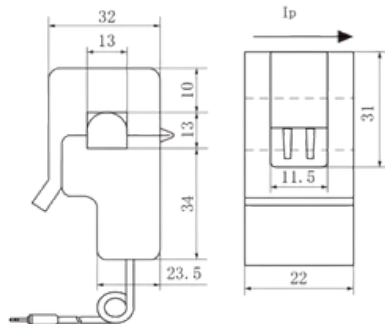
TECHNICAL FEATURES

- **LoRaWAN® Version:** 1.0.3 Specification Class-A: CN470/EU433/KR920/US915/EU868/AS923/AU915/IN865
- **NB-IoT Version:** CATNB2 Bands: B1/B2/B3/B4/B5/B8/B12/B13/B17/B18/B19/B20/B25/B28/B66/B70/B85
- **LTE-M Version:** CAT-M1 / LTE-M Bands: B1/B2/B3/B4/B5/B8/B12/B13/B18/B19/B20/B25/B26/B27/B28/B66/B85
- **SIM Options:** ioX-Connect 1MB or 5MB pooled IoT Data Plans per device subscription
- **GNSS:** All cellular versions (NB-IoT, CAT-M1 or LTE-M) support GNSS transmit for device GEO Location tracking
- **Dimensions:** Size: 9.7 x 6.5 x 4.7 cm - Weight: 150 grams excluding CT Clamps
- **Battery:** 8500mAh Li-SOCl₂ battery for long maintenance free battery life (non re-chargeable)
- **Solar Version:** 3000mAh re-chargeable battery with 0.9W on board solar panel
- **Operating Temperature:** -40°C ~ 85°C

CT CLAMPS - SOLD SEPARATELY

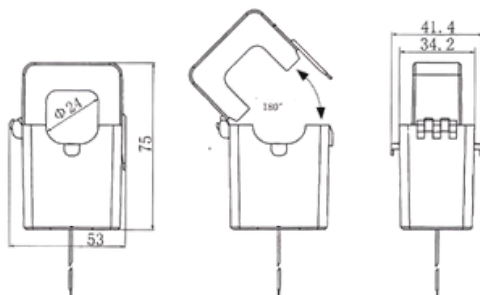
4-CHANNEL AC CURRENT METER

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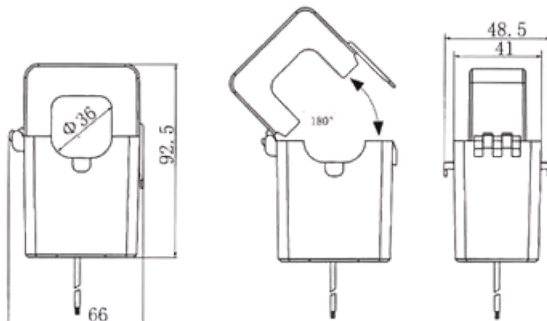
100A CT (IOX-PRB-CT100A)

- Spec: 100A/50mA
- $\phi 16\text{mm}$ Aperture
- Accuracy: 1%
- Operating Temperature: $-25^{\circ}\text{C} \sim 60^{\circ}\text{C}$
- Storage Temperature: $-30^{\circ}\text{C} \sim 90^{\circ}\text{C}$



300A CT (IOX-PRB-CT300A)

- Spec: 300A/50mA
- $\phi 24\text{mm}$ Aperture
- Accuracy: 1%
- Operating Temperature: $-25^{\circ}\text{C} \sim 60^{\circ}\text{C}$
- Storage Temperature: $-30^{\circ}\text{C} \sim 90^{\circ}\text{C}$



600A CT (IOX-PRB-CT600A)

- Spec: 600A/50mA
- $\phi 36\text{mm}$ Aperture
- Accuracy: 1%
- Operating Temperature: $-25^{\circ}\text{C} \sim 60^{\circ}\text{C}$
- Storage Temperature: $-30^{\circ}\text{C} \sim 90^{\circ}\text{C}$



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