

WATTNODE® CLOUD

Cloud-Based Energy Metering and Control

Overview

The WattNode Cloud is based on Continental Control Systems' WattNode energy and power meter – an industry leading, three-phase electric meter for use with external low voltage (333mV) current transformers. All data from the meter is collected by the ezeio™ Controller – a versatile and secure data collection system with alarming and control and secure communication capabilities through the ezeControl cloud system.

Installation

Installing the WattNode Cloud requires connections to the phases to be metered and clamping the split core CT's around the load wires. The display on the unit shows voltage, current, power and energy for each of the phases for an immediate verification that the installation is successful.

Communication

The WattNode Cloud communicates with the ezeControl servers via a built-in cellular radio, eliminating complicated wiring or network infrastructure. An optional hardwire connection for LAN access is also available.

The data from the WattNode Cloud can be accessed from any web browser or mobile device. The ezeControl system allows for multiple simultaneous users, and provides for alarms on power loss or other errant readings.

The WattNode Cloud along with the ezeControl systems can generate automatic reports, personal dashboards and much more. Building on technology from eze System, the data is secured; backed up in multiple locations worldwide.



Applications

- Tenant submetering
- Equipment energy monitoring
- Small commercial metering
- Residential submetering
- Energy consumption monitoring
- Tenant metering and billing

Dimensions and Specifications

Size: 10" (W) x 12" (H) x 6" (D)



Specifications

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Enclosure: Plastic, IP65, Surface mount or recessed. Protective door with seal-loop.

Power supply: 100-240VAC single phase, typical self draw < 5W.

Battery: Built in 12h rechargeable battery backup

Electrical: 3 phase, 100-480VAC

CT's: High accuracy 5-6000A, safe 333mv VAC output

Display: 4-line x 20 characters, high contrast, visible in any light.

Communication: Ethernet or Cellular (GSM/3G). WiFi optional.

Installation: No special firewall setup or IP addressing. Secure, automatic, plug-and-play.

Log features: 10s to 1h log interval. Per phase or total, Current, Voltage, Power, Energy, Power Factor and more.

Alarms: Email, SMS, Voice, HTTP and more. Local control possible (e.g. shut off loads at high demand)

Cloud features: View all data in real time via standard web UI. Real time control of outputs and access to all settings.

Reports: Daily, Weekly, Monthly auto-generated PDF sent via email to one or several recipients. Per meter, phase or collection of several meters.

Dashboards: Personal and account level (shared by all users on the same account).

Other features: Settings and data backed up by cloud system. Allows easy hardware replacement or duplication of setup.

Expandability: Add thermostats, other meters (electrical, gas, water.), temperature, RH, CO2 sensors, control relays, scheduling, automation.