

Knowatt06

(3 phase) Overall Utility Pickup



The Knowatt 06, the perfect unit for sub metering or smaller installations, sending aggregated, intermittent data.

The Knowatt06 an overall utilities 1/3phase sub-meter, Mains powered for Overall utility monitoring via the 3 CT inputs. Picking up each phase's main incoming supply, for accurate TRUE, Apparent and Actual Power monitoring.

Utilising LoRa wireless technology, connecting, long range, low data rate, sensors to the Cloud and enabling real-time communication of data and analytics that can be utilised to enhance efficiency and productivity. Knowatt's LoRa Gateway is designed for fit and forget. designed for 24/7 operation for > 10 year lifetime and guaranteed for 5 years.



Technical Specification



Knowatt05 - 3 Phase

- 3 phase CT Class 0.1 Meter
- High Accuracy <1%
- Power (Whr) converted to KWh
- AC Voltage & frequency
- Brownout detection
- Spike detection
- RMS voltage (true)
- Real/Apparent/PF/Frequency
- 3 x CTs 16mm aperture
- Temperature
- 6P6C RJ connections for Inputs
- Variable CT 6mm 200mm (32A 10,000A)
- Optional Rogowski coil CT's
- TRUE power-High resolution (0.001W)
- High accuracy synchronised, 24 BIT Sigma Delta A-Ds, sampling at 8kHz
- Universal input 90–264 VAC, 47–63Hz

Network

- LoraWan communications; long range, low powered IOT
- 868MHz (Europe)
- MQTT Via LoRawan protocol

Mechanical

- Dimensions (W x H x D) 145x125x47mm
- Weight; 0.3kg
- · Colour; Powdered Grey

Environmental

- Operating Temperature; 5'c ~ +55'c
- Storage Temperature; -20'c ~ +65'c
- Humidity; 20% 90%

Safety

CE Certified

Pickups

• 8P8C and 4P4C RJ type plugin for easy installation

Unit Setup

NFC communications for setup and system diagnostics

Data types

- Water
- Oil
- Electricity
- Gas

Power

- 3 or 1 phase power
- Universal in 80v 240v a.c. 47-63Hz

Knowatt Custom Monitoring

- CO2, VOC
- Analogue inputs
- Control outputs
- Temperature
- Humidity
- UPS battery monitored (high resolution 24bit-0.001V)
- Cabinet Battery-Time to Run (battery capacity)
- Battery Health
- Individual cell/block monitoring
- Cabinet door
- Flood detection

Guarantee

Design life 10 years, Guaranteed 5 yrs