Knowatt

Knowatt04

Overall Utility Pulse Pickup

The Knowatt04 is the perfect unit for smaller & sub metering installations, sending aggregated, intermittent data collected from pulse output meters.

This Battery Powered Sensor has 4 pulse pickup inputs. Each input can pick up pulses from Electricity/Gas/Water Meters with LoRawan data communication built-in.

Utilising LoRa 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 LoRaWan is designed for fit and forget. designed for 24/7 operation for > 10 year lifetime.

WWW

GATEWAYS

LoRa

LoraWan Gateway

Water Meter

Gas Meter

Electricity Meter

Technical Specification

Knowatt

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- 2 x Pulse Input – electricity LED optical pickups
- 2 x Gas/Water pulse inputs (can also be used for Electricity)
- LED pulse replicator
- 8P8C & 4P4C RJ connections for Inputs

Network

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

Battery Power

- 10 year design life
- monitored

Mechanical

- Dimensions (W x H x D) 205 x 40 x 120mm
- 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

- 2 inputs designated for +ve pulses (LED)
- 2 inputs for volt free -ve pulses
  (mechanical e.g. water/gas meters)

Unit Setup

- Easy Setup using Industry standard website

Data types

- Water
- Electricity
- Gas, Oil
- Heat (heat meters), etc.

Knowatt Custom Monitoring

- CO_2
- VOC
- Analogue inputs
- Control outputs
- Temperature (0.5′)
- Humidity
- Heat
- 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

Lifetime

- Designed life 10 years
- Guaranteed 5 years