Application Note // Energy Management with EpiSensor

IoT Solutions Partner

EPISENSOR

Pulse
(ZPC-2X)

Pulse Inputs

Dual Channel pulse up to 40Hz (volt-free, active & open collector) with battery powered option

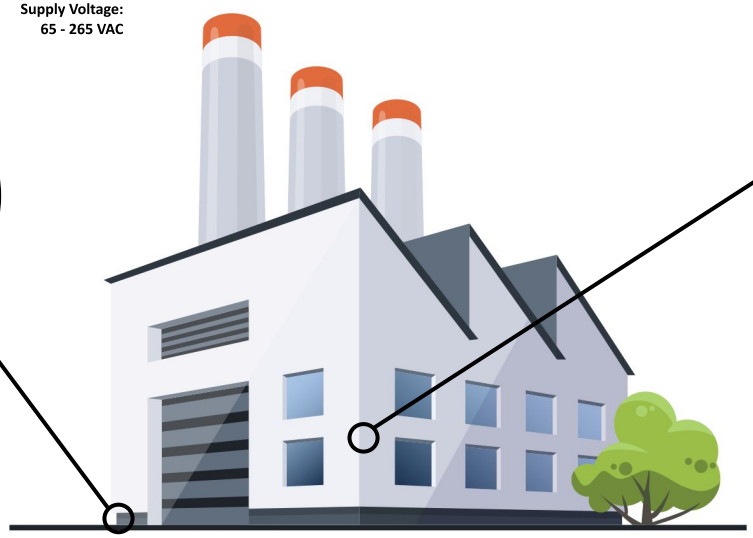
Data Logging

Store up to 70,000 data points (2 years @ 15 min intervals) at the edge

Supply Voltage:
65 - 265 VAC

Utility Meters

Collect data from a wide variety of water, electricity, natural gas, heat, oil and other utility meters



Temperature & Humidity
(HTS-1X)

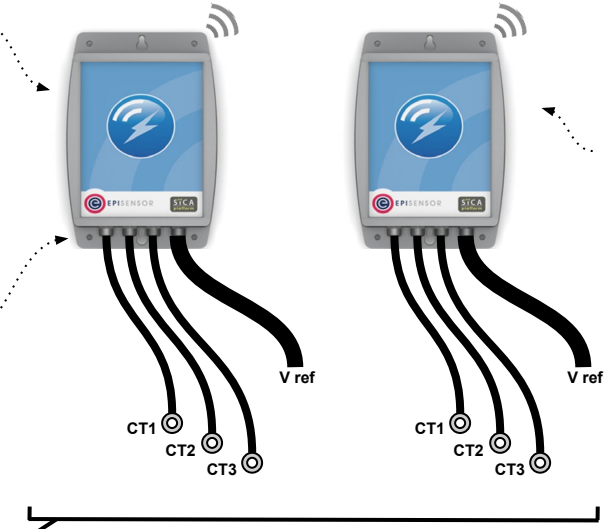
Environmental

Add environmental sensors for temperature and humidity monitoring and accurate degree-day adjustments

Live Stream

Send data to the server every second, or 'only when a change is detected' with delta reporting mode

Electricity
(ZEM-6X)



Multiple Parameters

Monitor voltage, current, power factor, frequency, kWh, kVAh & more.

IP67 (NEMA 4) Enclosure

Water and dust-proof polycarbonate enclosures as standard

Scalable

Connect up to 100 nodes to each wireless mesh network

Expand Easily

Add any other EpiSensor nodes for monitoring 4-20mA, 0-10V, Modbus, etc.

Fully Secure

Security from 'sensor to server' with ZigBee (non-IP) AES 128-bit encrypted communications

EpiSensor Gateway
(NGR-30-5)

Based on Dell Edge Gateway 3002

to private / public cloud

to local systems via:

- Modbus TCP
- REST API
- OPC UA
- other protocols using EdgeX Foundry

Network

Onboard 3G / 4G cellular, Wi-Fi and dual Ethernet (with PoE) for wide area network connectivity.

EPI-115-00