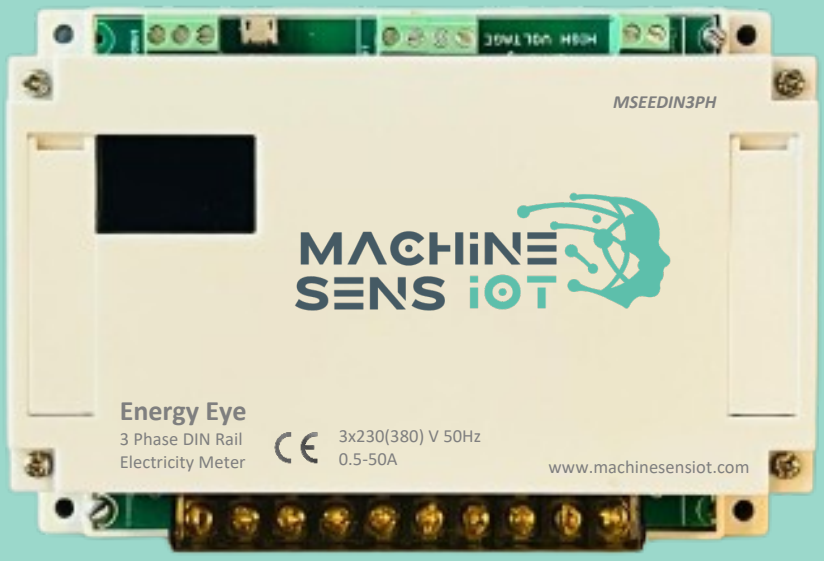
Energy Eye

Wireless LoRa® Power Meter



Accurate measurement of energy and wireless data transmission through LoRaWAN™ protocol.

Take control of your energy consumption with our highly accurate and reliable IoT enabled energy meter featuring internal CTs supporting Modbus and LoRaWAN protocol for tracking energy usage and optimizing costs.

Product Overview

Introducing **EnergyEye**, the cutting-edge energy meter that transforms the approach to measuring and monitoring electricity consumption.

Equipped with internal CTs (Current Transformers), **EnergyEye** facilitates direct current measurement of up to 50A, extendable up to 5000A with external CTs.

Compliant with Modbus and LoRaWAN protocols, this energy meter delivers exceptionally accurate and dependable electrical energy measurement.

It enables tracking of critical parameters like power factors, generated reactive power, and peak loads, empowering users to optimize energy utilization and enhance operational processes.

Energy Measurement Applications

residential

retail

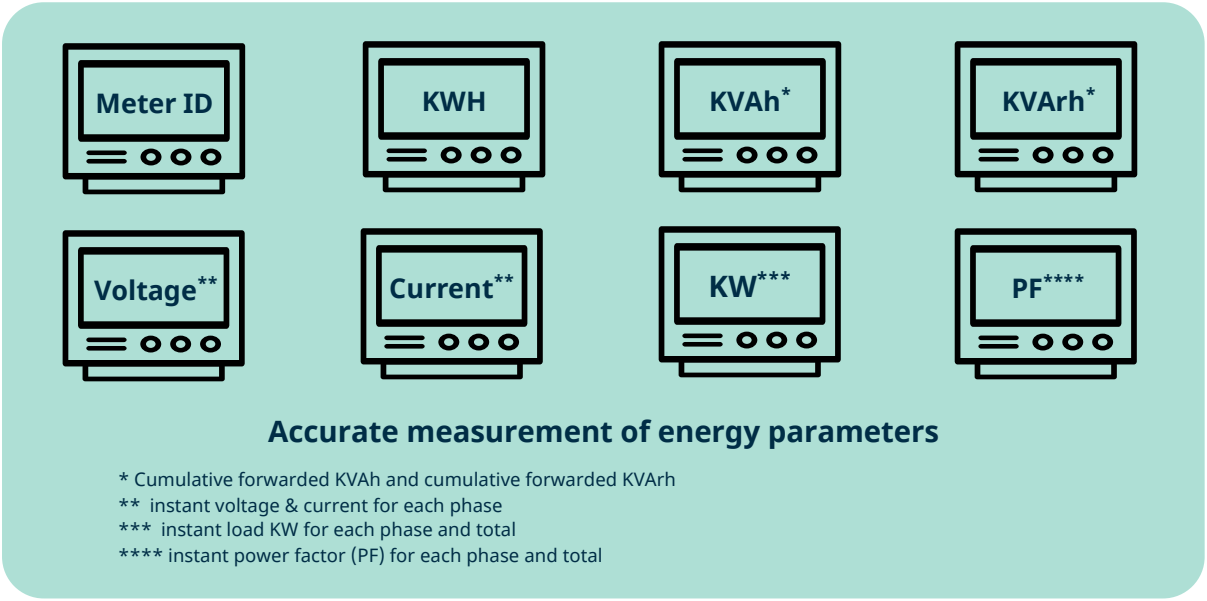
hospitality

healthcare

commercial real estate

online energy monitoring

Product Features



Accurate measurement of energy parameters

* Cumulative forwarded KVAh and cumulative forwarded KVArh
** instant voltage & current for each phase
*** instant load KW for each phase and total
**** instant power factor (PF) for each phase and total

Easy data collection and management
with advanced RS485 communication and 868 MHz LoRaWAN wireless capabilities

Easy to install and operate.
making it a great choice for energy monitoring and management

Automation & System Integrate
Integrate Energy Metering data into existing Building Management systems and applications

Real-time date and time
for tracking energy consumption over time

Alerts and events
on configured parameters through the Energy Management Platform

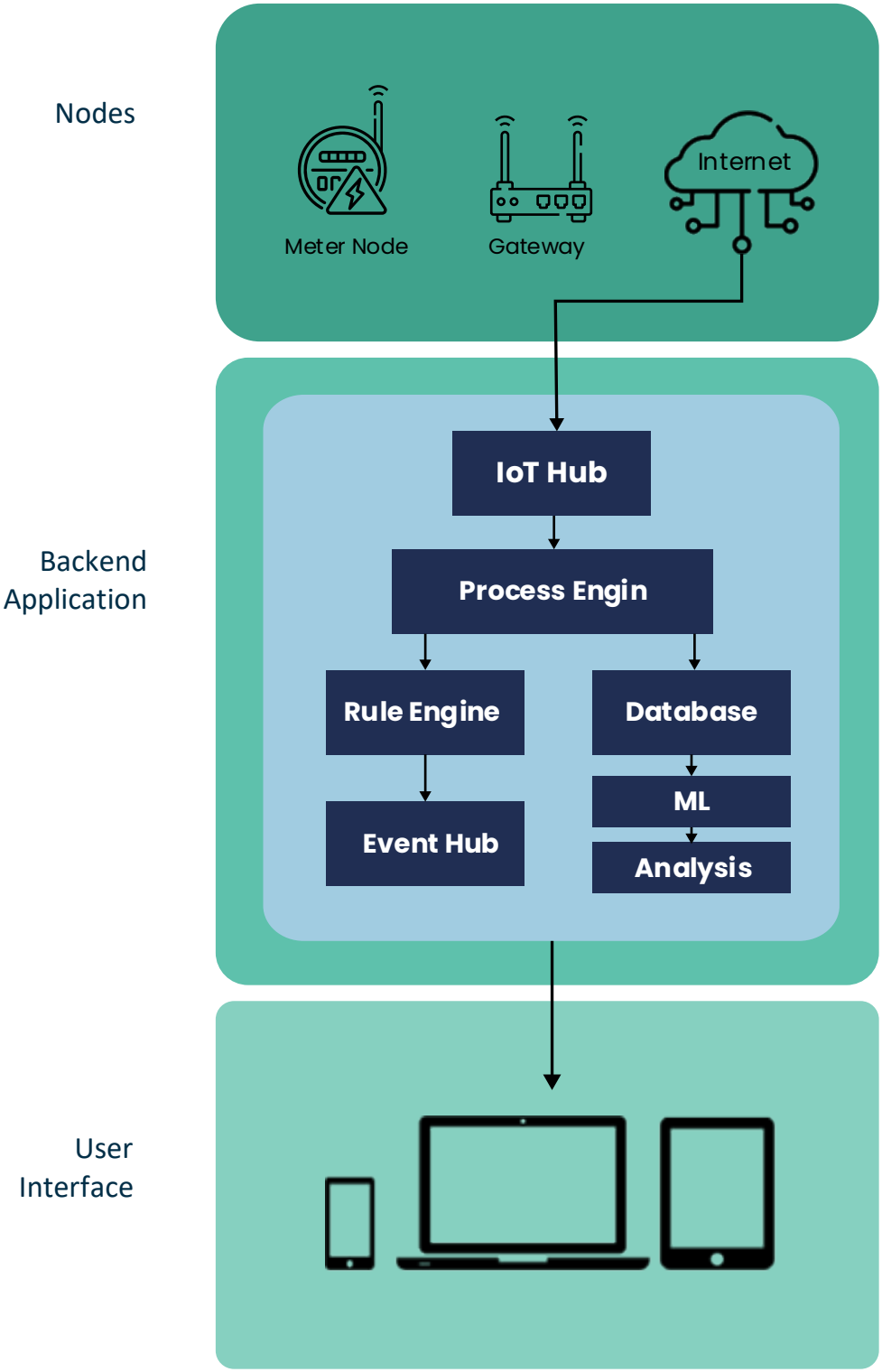
www.machinesensiot.com info@machinesensiot.com

Technical Specification

Brand Name	Energy Eye 3 Phase
Model Number	MSEEDIN3PH
Display Type	Mini LCD Display
Display scrolling	Automatic
Dimensions	155mm×84mm
Communication	Modbus and LoRaWAN 1.0.2
Phase	Three Phase
Voltage	Three Phase, 4 Wire input, 3x230/380V
Current Rating	100A-5000A (External CTs), Up to 50A (Internal CTs)
Auxiliary Power Supply	AC/DC 85V~265V or AC/DC 115~415V
Starting Current	0.2%
Frequency Range	45 - 65 Hz
Measuring Energy Range	0 - 99999 kWh
Pulse constant	4000 (5A) imp/kWh
Accuracy	± 1% for voltage, current and power Class 1 for Active energy
Power Supply	Peak Voltage shall not exceed 3.6V, Power Consumption: ≤ 20mA
Operating Temperature	-20°C to +60°C
Operating Humidity	5% to 95%RH

Storage Temperature	-40°C to +85°C
Installation Category	III
Mounting	DIN rail
Weight	600 gms
Isolation	Strong and Weak Electricity are isolated by Transformer. Isolation withstand voltage upto 2500V
Environment	No explosion, corrosive gas, conductive dust, and areas with significant vibration.

System Architecture



Energy Management Dashboard Sample