

energy monitor

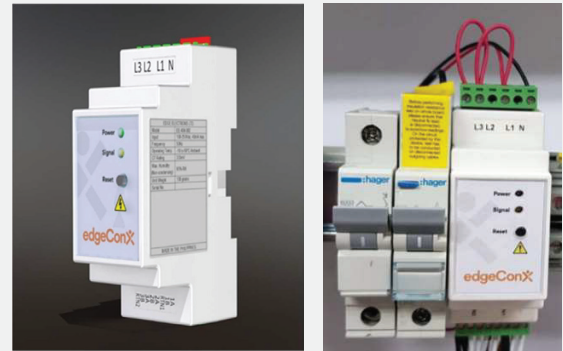
DATA SHEET

Electrical Energy Monitoring
Full Energy Cloud Data GUI + Smart Phones
Models: EE-404-Series



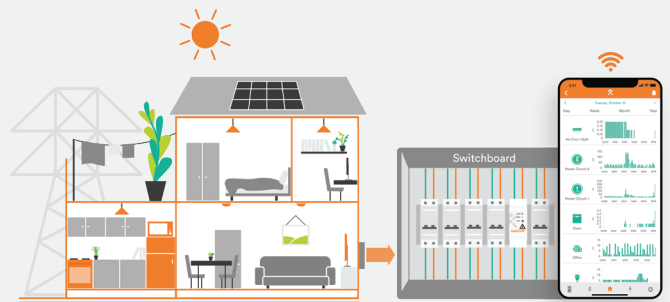
DESCRIPTION

The edgeConX™ real time energy monitor device is a DIN mounted unit which is installed into the switchboard of a Residential or SME Commercial facility. The product will transmit full Power Quality and Energy data to a Cloud Database which is then used to provide usage analytics and energy insights to customers via a mobile app experience. Any additional enhancement on its software can be updated remotely.



FEATURES

- Supports IoT Centric Cloud Architecture with
- Web Graphical User Interface and Mobile Application for both Single and Three Phase Installations
- Wide Voltage Input - 100-480VAC
- Standard DIN package
- Six (6) Current Channel Inputs and
- Three (3) Voltage Channel Inputs
- Supports Current Transformers with 60A, 120A, 200A, 400A, 600A with standard protected 333mV output
- Class 1 Power Quality Data Accuracy
- Data Communication Variants – WiFi.
- Remote Firmware Update
- Measurement Category CAT III
- Product Life of 10 years
- Safety standard IEC 61010-1:2010 + AMD1:2016



White Enclosure

Black Enclosure

4G | EE-404-005

4G | EE-404-007

WiFi | EE-404-006

WiFi | EE-404-008



SAVINGS FOR ALL BUSINESS SIZES

Available Configurations	Single Phase or Three Phase 4 Wire
Electrical Frequency	50/60Hz
Rated Voltage	100-275 VAC Line – Neutral 1-Ph 173-480 VAC Line-Line, 4 wire/3-Ph
Rated Current	60A, 120A, 200A 400A, 600A split core current transformers
Lightning Strike	IEC61000-4-5 Class 1 500V
Power Quality Data Accuracy	+ 1% + 0.1 Amps
Power Factor Accuracy	+ 1 degree
Power Quality Measurements	vTHD, iTHD, individual harmonics up to 15th order
Measurement Interval	1 – 150 second (configurable) @ 1sec data point Default 30 seconds.
Energy Transmission	5 second – 15-minute intervals (configurable) Default 60 seconds
Communication Outage data logging	10 days of 15-minute interval data stored if offline and uploaded to server once reconnected
Current Sense Channels	1 – 6 channels; Single Phase and Three Phase.
Operating Temperature Range	-10 to 60 °C Ambient

DATA AND EVENT LOGGING

Power Quality Data	<p>Critical Parameters</p> <ul style="list-style-type: none"> • Voltage per line, Current per channel, Power per channel, Power Factor per channel, THD per voltage and current channel <p>Non-Critical Parameters (per minute instantaneous)</p> <ul style="list-style-type: none"> • Frequency per line, Harmonics per current & voltage channels (odd harmonics from 3rd to 15th)
Event Logging	<p>Over Voltage: >253V</p> <p>Under Voltage: <216V</p> <p>Over Frequency: >52 Hz</p> <p>Under Frequency: <48 Hz</p> <p>Over Voltage THD: >5%</p>

CONNECTIVITY

Communications Options	WiFi
Communications Architecture	Periodic reporting to a central IoT Cloud server
Systems Logs	Fully configurable measurement interval with 10 days Communication
	Outage Data Retention