edgeConX™ Electrical Energy Monitoring and Control
Full Energy Cloud Data GUI also to Smart Phones
Models: EE-404-Series

EDGE ELECTRONS™
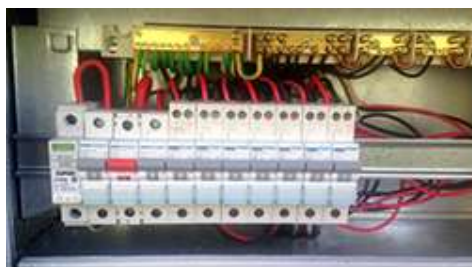SAVING FOR THE FUTURE

FEATURES

Full Data Analytics for Electrical Energy Consumption

- 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

ULL-101528

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.

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Electrical Specifications	
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	*Critical Parameters:* *Voltage per line, Current per channel, Power per channel, Power Factor per channel, THD per voltage and current channel* *Non-Critical Parameters (per minute instantaneous):* *Frequency per line, Harmonics per current & voltage channels (odd harmonics from 3rd to 15th)*
Event Logging	*Over Voltage: >253V* *Under Voltage: <216V* *Over Frequency: >52 Hz* *Under Frequency: <48 Hz* *Over Voltage THD: >5%*

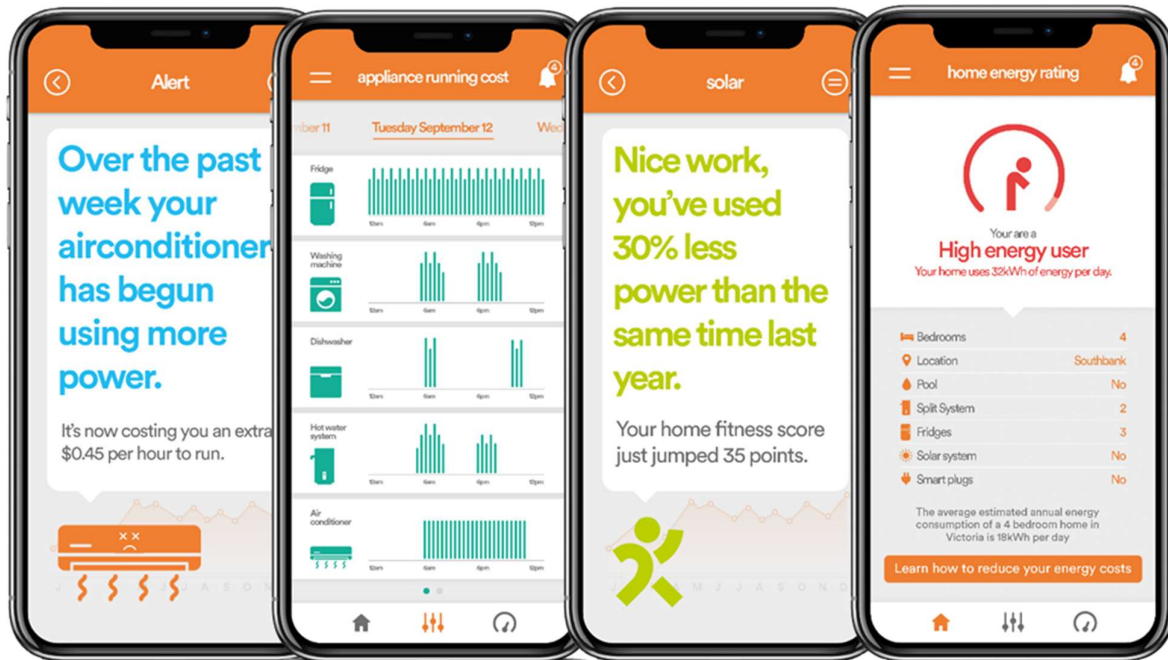| Connectivity	
Communications Options	*WiFi*
Communications Architecture	*Periodic reporting to a central IoT Cloud server*
Systems Logs	*Fully configurable measurement interval with 10 days Communication Outage Data Retention*

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GRAPHICAL USER INTERFACE

edgeConX PART NUMBERS – EE-404-XXX

White Enclosure		Black Enclosure	
4G	**WiFi**	**4G**	**WiFi**
EE-404-005	EE-404-006	EE-404-007	EE-404-008

Contact
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