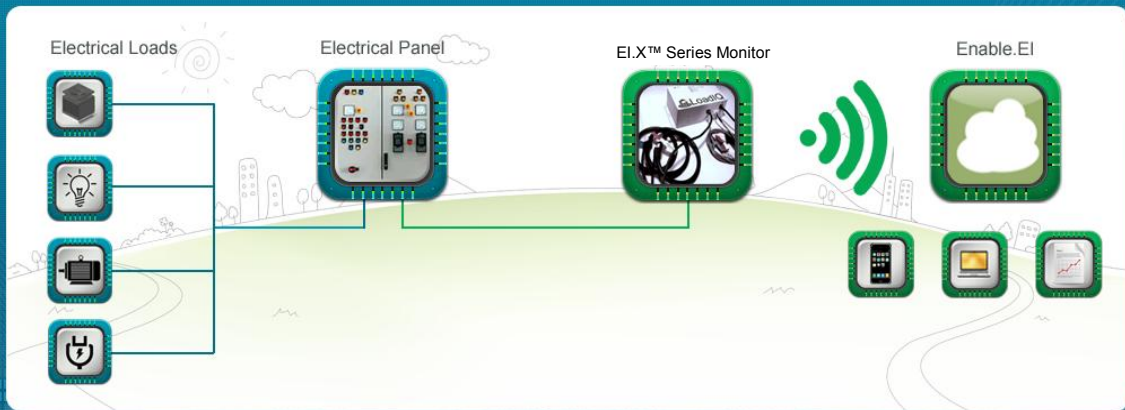


## EI.X Series Monitor – the Eyes & Ears of Enable.EI™

Enable.EI is the industry's leading cloud-based platform for granular energy intelligence. LoadIQ's EI.X Series Monitor is installed at a facility's main electrical distribution panel, using software to identify and track energy consumption and power quality for specific loads, with sensors only on the main electrical phases.



EI.X connects to the power supply at the facility's main electrical distribution panel using industry-proven sensors. Using a high sampling frequency and patented algorithms, EI.X "disaggregates" the specific loads contributing to energy consumption.

Multiple configurations are available—from two "lines" (3 sensors for 3-phase power) to 8 lines (24 sensors)—to isolate specific sub-panel or multi-stage loads. EI.X tracks load-level power and energy in real-time, along with power quality inputs to support multiple energy-saving applications.

- ✓ Energy | Power Monitoring
- ✓ Demand Response
- ✓ Baseline | eM&V for Retrofits, RCx, Audits
- ✓ Billing
- ✓ Sustainability Reporting
- ✓ Diagnostics

# EI.X Series Monitor™ – the Eyes & Ears of Enable.EI™

**Installation.** EI.X can be wall mounted, or placed inside the panel itself. A licensed electrician is recommended for installation. No disruption of electrical service is required. Spit-core current sensors and voltage sensors are installed on the “mains”, as well as any sub-panels or multi-stage loads. Configuration of network and sensor locations is performed through direct Ethernet connection of a web enabled device to the EI.X.

**Labeling.** Once installed, EI.X starts analyzing the data streams immediately and isolating loads. The Labeling Assistant in Enable.EI guides the installer in categorizing and naming loads. Cycling loads once may be necessary to label those assets that seldom power off.

## EI.X Series Configurations

**EI.X X ~ 2, 4, 8 lines**

EI.X uses Current Transformers or Rogowski coils which are pre-calibrated for the amperage service (up to 2000 A). Additional lines will be specified for max amp ratings (100, 600, 2000 A). EI.4 and EI.8 can support monitoring of lines on two different voltages.

## Model Nomenclature

EI - **X** - **a** - **c**

c ~ primary communication via LAN (l), Wi-Fi (w), Cellular/GSM (c)

a ~ max amperage for 1<sup>st</sup> line—  
100, 600, 2000 A; Additional line CT's ordered separately

X = # of 3-phase lines (2, 4, or 8)



### ◆ Electrical Parameters

Power supply: 100 VAC to 480 VAC

- EI-X supports 1, 2, or 3 phase service
- EI-4, EI-8 can also support circuits on two voltages (e.g. 480V Wye and 208 Wye)

### ◆ External Connections

Power (4 wire: N, Phases A, B, and C via Molex Minifit Jr Connector)

Ethernet (RJ-45)

Current (RJ-45 connection to CT or Rogowski Coil Sensor Set)

### ◆ Monitored Values

Volts (V)

Current (A)

Power (kW)

Energy (kWh)

Power Factor

Phase Imbalance (%)

Maximum Voltage Sag, Duration, and Time

### ◆ Communications (>100 Kbd required)

Ethernet (LAN)

Wi-Fi (802.11 b/g/n); WPA-PSK2 encryption

Cellular (GSM)

### ◆ Data Output (Supported Protocols)\*

via Enable.EI--BACNet, ModBus, oBIX, SOAP, CSV

### ◆ Enclosure

Flame Retardant ABS

### ◆ Dimensions

7.4" (l) x 4.4" (w) x 2.2" (h) | 1.2 lbs (without sensors)

### ◆ Certifications

UL, CE (pending)

FCC (pending)

\*API's available to LoadIQ Channel Partners