

# eGauge | EG30xx Specifications

## General

Warranty: 2 years, 5 years  
 Logging Values: V, A, W, Wh, Hz, VA, VAR, THD, deg  
 Power Draw: 7.5W peak, 2W typical

## Measurement Capacity

Voltage: 3 channels:  
           85-277Vrms (L1-N)  
           0-277Vrms (L2-N, L3-N)  
 Current: 12 channels, up to 4800A  
 Power: any voltage/current combination  
 Frequency: 50 or 60 Hz

## Regulatory

Safety: Conforms to UL/IEC STD 61010-1  
 Certified to CAN/CSA STD C22.2  
 No. 61010.1  
 Conforms as Listed Device  
 Lead-free, RoHS compliant  
 FCC: CISPR 11 Group 1 class B  
 FCC 47CFR 15 class B

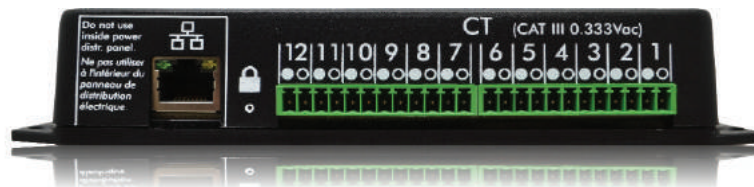
## User Interface

Compatible web browsers\*: Google Chrome  
 Firefox  
 Safari  
 Internet Explorer

\*Up-to-date versions supported

## Communication

HomePlug AV: Compatible with HomePlug AV adapter within ~100ft. on same phase as L1 terminal  
 Ethernet: IEEE 802.3 - LAN



eGauge is a flexible, secure, web-based electric energy and power meter that can measure up to 12 circuits on up to three phases.

## Product Capabilities

|                   | EG3000 | EG3010 |
|-------------------|--------|--------|
| Ethernet Port     | ✓      | ✓      |
| HomePlug PLC      |        | ✓      |
| 3ph/4w            | ✓      | ✓      |
| 3ph/3w            | ✓      | ✓      |
| 1ph/3w            | ✓      | ✓      |
| 0-4800A           | ✓      | ✓      |
| 12 CT Channels    | ✓      | ✓      |
| Track Use./Gen.   | ✓      | ✓      |
| CSV Export        | ✓      | ✓      |
| 16/64 Registers** | ✓      | ✓      |
| UI Firmware       | ✓      | ✓      |

## \*\* Database Storage Capacity

The EG30xx model has two database options: 16 and 64 register. They differ in how long and with what granularity data is stored. Both options have 10 minutes of data at one-second granularity in volatile memory.

|                      | 1 min average | 15 min average | 1 hr average |
|----------------------|---------------|----------------|--------------|
| 16 Register Database | 1 year        | 29 years       | —            |
| 64 Register Database | 1 year        | —              | 6 years      |

## Environmental Conditions

Operating Temp: -30°C to 70°C (-22°F to 158°F)  
 Max Altitude: 4000m (13,000 ft)  
 Max Humidity: 80% up to 31°C  
 Meas. Category: III (fixed installation)  
 Location: Indoor or outdoor (in NEMA 4 Enclosure)  
 Pollution Degree: 2

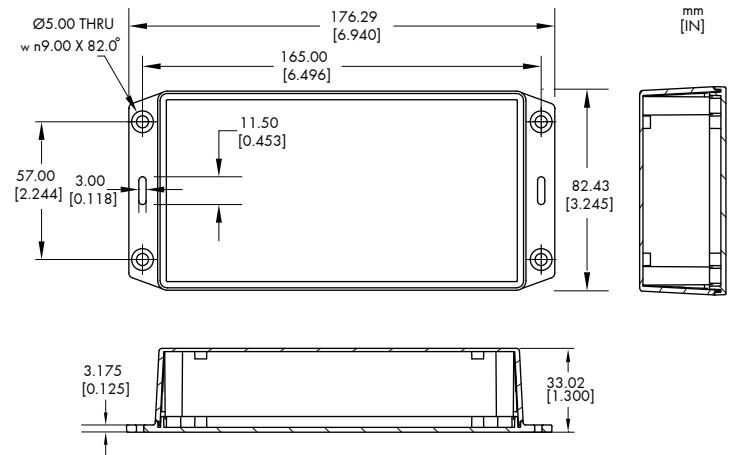
## Revenue Grade Accuracy

†Accuracy Options: (A000) ANSI C12.1 - 1%  
 (A010) ANSI C12.1 - 1% with Certificate  
 (A005) ANSI C12.20 - 0.5% with Certificate

†Revenue grade accuracy requires the use of model CC-ACT-xxx-xxxx CTs  
 Contact eGauge sales for more information

## Enclosure

Material: Flame-retardant ABS (UL94-V0)  
 Size: 176x83x33mm (6.94x3.25x1.31IN)  
 Weight: 220g (8oz)



## Current Transformer Options

| CT Type                       | CT Inner Diameter | CT Amperage |   |     |     |      |      |      |      |      |      |      |      |       |       |     |       |
|-------------------------------|-------------------|-------------|---|-----|-----|------|------|------|------|------|------|------|------|-------|-------|-----|-------|
|                               |                   | 20A         | 30A                                     | 50A | 75A | 100A | 150A | 200A | 250A | 300A | 400A | 600A | 800A | 1000A | 1500A | ... | 4800A |
| <b>Split-core</b>             |                   |             |   |     |     |      |      |      |      |      |      |      |      |       |       |     |       |
| JD-SCT-010-xxxx               | 0.39"             | 10 mm       |   |     | x   | x    |      |      |      |      |      |      |      |       |       |     |       |
| JD-SCT-016-xxxx               | 0.63"             | 16 mm       |   |     | x   |      | x    |      |      |      |      |      |      |       |       |     |       |
| JD-SCT-024-xxxx               | 0.94"             | 24 mm       |   |     |     |      | x    | x    |      |      |      |      |      |       |       |     |       |
| JD-SCT-036-xxxx               | 1.42"             | 36 mm       |   |     |     |      |      |      |      |      | x    | x    |      |       |       |     |       |
| ML-SCT-050-xxxx               | 2.00"             | 50.8 mm     |   |     |     |      | x    | x    |      | x    | x    | x    | x    | x     | x     |     |       |
| <b>Revenue Grade Accuracy</b> |                   |             |   |     |     |      |      |      |      |      |      |      |      |       |       |     |       |
| CC-ACT-020-xxxx               | 0.79"             | 20 mm       | x                                       |     | x   |      | x    | x    |      |      |      |      |      |       |       |     |       |
| CC-ACT-032-xxxx               | 1.25"             | 32 mm       |   |     |     |      |      |      | x    |      | x    | x    |      |       |       |     |       |
| <b>Rogowski Coil (Rope)</b>   |                   |             |   |     |     |      |      |      |      |      |      |      |      |       |       |     |       |
| ML-RCT-150-4800               | 6.0"              | 152.4 mm    | Linear measurement range from 50A-4800A |     |     |      |      |      |      |      |      |      |      |       |       |     |       |
| JD-RCT-115-4085               | 4.5"              | 115 mm      | Linear measurement range from 50A-4085A |     |     |      |      |      |      |      |      |      |      |       |       |     |       |

## Wire Gauge Sizing\*\*

| AWG/kcmil | DIAMETER (IN) | AWG/kcmil | DIAMETER (IN) | AWG/kcmil | DIAMETER (IN) | AWG/kcmil | DIAMETER (IN) |
|-----------|---------------|-----------|---------------|-----------|---------------|-----------|---------------|
| 12        | 0.127         | 4         | 0.317         | 0         | 0.474         | 250       | 0.678         |
| 10        | 0.160         | 3         | 0.344         | 00        | 0.518         | 300       | 0.730         |
| 8         | 0.212         | 2         | 0.375         | 000       | 0.568         | 350       | 0.777         |
| 6         | 0.248         | 1         | 0.435         | 0000      | 0.624         | 400       | 0.821         |

\*\*Sizes based on approximate outer diameters of THHN cable. Should be used only as a guide.