eGauge

capture your footprint [tread lightly]

REAL-TIME WEB-BASED ENERGY MONITOR

RECOGNIZED COMPONENT

CONFORMS TO
UL STD 61010-1

CERTIFIED TO CAN/CSA
STD C22.2 No. 61010-1

Intertek 4000691

Key Features and Benefits

- Measures electric power on up to 12 circuits:
    - Building demand/consumption
    - Renewable energy production
    - Sub-metering and individual circuits
- Potential transformer integration for higher voltage systems
- Built-in web server
- 16 recorded register values expandable to 128 registers
- Multi layered password protection and information hiding
- Fully web-configurable
- CSV export & data API
- URI data push available/open API
- Built-in solid-state memory and data logger:
    - 1 minute granularity for current year
    - 15 minute granularity for 29 years
- Internet-enabled or stand-alone operation
- Remote device support:
    - Team multiple eGauge units
    - Weather station & inverter readout via RS485
- Free lifetime firmware upgrades
- No service contracts
- No maintenance
- Windows, Mac, Linux, & smart-phone compatible
- For residential, commercial, municipal, and industrial use
- BACnet compatible
- Made in USA – ARRA "Buy American compliant"
- Custom software development/skinning & OEM services
- See real time devices at www.egauge.net/devices/

New Features

- 1 second granularity for 10 minutes
- Multiple user/restricted access support
- Self-powered Rogowski coil "rope" CT integration
    - 20 – 4800A
    - +/- 1% linearity
- DC current sensors
- SMS/email alerts:
    - Device status notifications
    - User defined formulas
- FFT analysis
- Logging capability of non-power values:
    - THD
    - VAr
    - deg
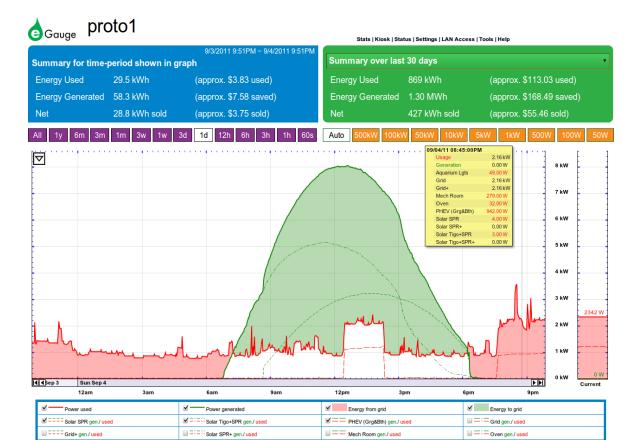- eGuard Manager updates:
    - Multiple user access
    - Sub-group organization
    - Installation site name/information control
    - Web-enabled parameter sorting

www.egauge.net
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eGauge proto1

Summary for time-period shown in graph
9/3/2011 9:51PM ~ 9/4/2011 9:51PM

Energy Used	29.5 kWh	(approx. $3.83 used)
Energy Generated	58.3 kWh	(approx. $7.58 saved)
Net	28.8 kWh sold	(approx. $3.75 sold)

Summary over last 30 days

Energy Used	869 kWh	(approx. $113.03 used)
Energy Generated	1.30 MWh	(approx. $168.49 saved)
Net	427 kWh sold	(approx. $55.46 sold)

All | 1y | 6m | 3m | 1m | 3w | 1w | 3d | 1d | 12h | 6h | 3h | 1h | 60s

Auto | 500kW | 100kW | 50kW | 10kW | 5kW | 1kW | 500W | 100W | 50W

09/04/11 08:45:00PM

Usage	2.16 kW
Generation	0.00 W
Aquarium Lgts	49.00 W
Grid	2.16 kW
Grid+	2.16 kW
Mech Room	279.00 W
Oven	32.00 W
PHEV (Grg&Bth)	942.00 W
Solar SPR	4.00 W
Solar SPR+	0.00 W
Solar Tigo+SPR	3.00 W
Solar Tigo+SPR+	0.00 W

Legend:
- Power used
- Power generated
- Energy from grid
- Energy to grid
- Solar SPR gen./ used
- Solar Tigo+SPR gen./ used
- PHEV (Grg&Bth) gen./ used
- Grid gen./ used
- Grid+ gen./ used
- Solar SPR+ gen./ used
- Mech Room gen./ used
- Oven gen./ used
- Aquarium Lgts gen./ used
- Solar Tigo+SPR+ gen./ used

General

Power usage:	3W typical
Warranty:	2 year or 5 year

Measurement Capacity

Voltage:	Up to 480 Vac, 3 channels, 85-277V (L1), 0-277V (L2, L3)
Current:	12 channels
Power:	any voltage/current combination

Logging values

V,A,W,Wh,Hz,VA,VAr,THD,deg

Environmental Conditions

Operating temp:	-30°C to 50°C (-22°F to 122°F)
Max altitude:	4000m (13,000ft)
Max humidity:	80% up to 31°C, derated to 50% at 40°C
Meas. Category:	III (fixed installation)
Location:	indoor or outdoor (in enclosure)
Pollution degree:	2

Enclosure

Material:	flame-retardant ABS (UL94-V0)
Size:	$176 \times 85 \times 30mm^3$ (7″×3.4″×1.2″)
Weight:	220g (8oz)

Regulatory

Safety:	Conforms to UL STD 61010-1 Certified to CAN/CSA STD C22.2 No. 61010-1 Lead-free and RoHS compliant
FCC:	CISPR 11 Group 1 class B, FCC 47CFR part 15 class B
FCC (BPL):	FCC Docket No. 04-37
CE	

Requirements

- HomePlug adapter within approx. 50ft of main unit
- Compatible web browser:
  - Google Chrome
  - Firefox 2+
  - Safari 3.1+
  - Internet Explorer 7+
  - Any browser with JavaScript and SVG or Canvas (HTML5) support
- For Internet-connected operation:
  - ≥256 Kbps upload speed

eGuard Manager (free web-based service)

- Allows installers to view multiple systems on one screen
- Email alerts
- Proactive customer service tool for trouble shooting and performance verification
- Tool for monthly billing, PPA, O&M, and sub metering

	Name	Con	Avail	Tmp	Average Power [W]			
					Since midnight		Last 24h	
					Gen	Use	Gen	Us
	Arbco	●	100%	54°C	n/a	n/a	n/a	
	BVSDARidge	●	100%	55°C	n/a	n/a	n/a	
	BVSDHPeaks	●	100%	50°C	4	4	1217	1.
	BVSDMesa	●	97%	37°C	1	4	1032	7.
	BVSDNVista	●	100%	44°C	4	n/a	519	
	BVSDThorne	●	99%	54°C	7	19	995	4.
	BauhsHouse	●	100%	42°C	2	1	397	
	CasaEldorado	●	99%	50°C	n/a	38	n/a	
	David	●	0%	56°C	1	1	1681	
	EGVan	●	100%	48°C	5	3	1470	
	ERCaboVilla301	●	98%	52°C	n/a	77	n/a	1

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