

Auditor 6W

Key Features

- Wi-Fi-connected real-time energy metering and control
- 6 channels of Class 1 (revenue-grade) measurement
- Ultra-compact 35mm DIN package
- Enterprise-class performance - suitable for domestic, commercial and industrial use
- Device Management System (DMS) for over-the-air (OTA) configuration & fleet management
- Simultaneous support for two hosting services
- Current and future options support load control and gateway functions
- Plug compatible with 3G/LTE, Ethernet and LoRa versions
- Onboarding application



Standard inclusions	Within enclosure: 6 channels energy meter, power supply, Wi-fi antenna Outside enclosure: Current Transformers or Rogowski coils, Antenna
Communication	Built-in Wi-fi
Antenna	Internal
Power Supply	Built-in (operates from phase 1) nominal 110-240VAC
Meters	Auditor 6W supports six channels, each separately reported
Hosting	Wattwatchers (API, applications) Solar Analytics (Solar monitoring and diagnostics) and more than 40+ channel partners worldwide
Device Management	Wattwatchers supports a range of device management features including <ul style="list-style-type: none">• Firmware updates• Installation verification,• OTA correction of CT “wrong phase” errors
Measurement interval	5 to 150 seconds
Energy logging	5-minute intervals; servers request logged data
Logged values	Real and reactive energy, min and max voltage and current, frequency
Logging period	30 days of 5 minute data for 6 channels logged onboard during comms outages (Data inaccessible physically)
Reporting interval	5 to 150 seconds, default set to 30 seconds
Reporting content	Configurable (real, reactive energy, voltage, current, frequency)
Data volume	~1.5 GB per month when viewing the MyEnergy app for 5 minutes per day
Protocol	Wattwatchers (see WW-AN002)

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Voltage connections	Four pin connector supports three phases and neutral P1 1 and Neutral are required to power the device and operate channels connected to phase 1 P2 and P3 are for measurement only.
Current sensing	Current Transformers are ordered separately: the 60A, 120A, 200A, 400A, 600A are field interchangeable
Configuration	Wi-Fi Access Point and web page for setting SSID and Passcode
Networking	One or multiple hosting services Time server DMS (Device Management System)
Battery Strategy	Auditor code can include an https server and API that supports a connection from a client, usually from within the LAN. "Discovery" is by MDNS. The client may be a battery management system.
Switching Option	Four pin phoenix connector provides three voltage-free 240VAC 100mA switches

Electrical Specification

Electrical characteristics

Measurement configuration	Voltage	1, 2 or 3 phase (Neutral required)
	Current	CT only (no Rogowski Coil option)
	Mode	Fundamental only / all harmonics
Measurement accuracy	Current and voltage	Meter is 0.1%. CT's supplied reduce this to 0.5% = 1%
	Power	Real power: 1 % of reading from pf 0.8 leading to 0.5 lagging: Reactive power: 2% below 0.5 lagging
	Frequency	100 ppm, 50 or 60Hz nominal
	Power factor	2 % from 0.8 leading to 0.5 lagging
	Active energy	Class 1 as defined by IEC 62053-21
	Reactive energy	Class 2 as defined by IEC 62053-23
Voltage Inputs	Measured voltage	85 to 265 V AC
	Permissible overload	1.15 Un, 1 minute
Current Inputs	Standard CT ratings	60A, 120A, 200A, 400A, 600A
	Internal burden	2.7 ohms (same value used for all standard CTs)
	Input	100 mA
	Permissible overload	300 mA continuous
	CT Connections	Not isolated (Neutral referenced)
Internal Power		0.6 W Single Phase (P1) Universal input

Mechanical characteristics

Weight		0.3 kg
IP degree of protection		IP50 (front display) (higher in cabinet)
Dimensions		90 x 66 x 35 mm (2 DIN poles)
Connectors	Voltage	6 positions / 4 connection 5.08 mm pitch FCI part 20020007-H061B01LF (included)
	Current - 6 meter version	8-way 3.81mm pitch FCI part 20020004-D061B01LF (included)

Environmental conditions

Operating temperature		-30 °C to +85 °C
Installation / pollution category		Level III / 2
Electromagnetic immunity	Electrostatic discharge	Level III (IEC 61000-4-2)
	Immunity to radiated fields	Level III (IEC 61000-4-3)
	Immunity to fast transients	Level IV (IEC 61000-4-4)
	Immunity to impulse waves	Level IV (IEC 61000-4-5)

Safety

AS60950 Level III

Communication

WiFi	802.11b/g/n +18dB transmit power -93dBm Rx
Antenna	Internal

Network

WLAN (home WiFi)	Channel	Auto
	Security	WPA2-PSK (not WPA enterprise or WEP)
	Antenna	Auto diversity
	SSID	AuditorXXX (serial no digits) pw digitalenergy
	Configuration Page	auditorsetup.com

Servers

Hosting	2
Management	DMS

Power Quality

Frequency	45 to 65 Hz, 0.01 Hz resolution
Voltage	80-265V in 0.1V resolution

Compliance Certificates

RMC	Pending
Safety	AS/NZ60950.1:2015
Conducted Emissions	AS/NZS CISPR 22:2009 ClassB
Radiated Spurious Emissions	AS/NZS 4268:2008 + A1:2010 C 8.2 & 9.1