



wattwatchers  
DIGITAL ENERGY

# Auditor 6M+3SW

Real-time enterprise-grade electricity monitoring and control

**A variant of our enterprise-grade Auditor 6M with added switching control capability for up to 3 contactors via the MyEnergy mobile app or 3rd party apps via the Wattwatchers API.**

The Auditor 6M+3SW is a specialised variant of our highly acclaimed Auditor 6M model. Retaining the same form factor, the Auditor 6M+3SW comes with an additional switching control feature, enabling the management of up to 3 contactors (which can comprise a combination of single-phase or three-phase circuits) through our in-house apps or 3rd party apps via the Wattwatchers API.

## How it works

The Auditor 6M+3SW is installed in the electrical switchboard and paired with one or more contactors. Once installed and configured, the energy consumption can be remotely monitored and switching can be controlled at individual circuit level in real time. The monitoring data and the switching functionality are accessible on computers, tablets and smartphones via our REST API, the Wattwatchers Software Toolkit (including the MyEnergy mobile app), or third-party interfaces.



## Highlights

- Switching control of up to 3 contactors (1-phase or 3-phase or a combination of both) via in-house apps or 3rd party apps via the Wattwatchers API
- Monitoring of up to six single-phase circuits (AC-only) per device. Also works in 2- and 3-phase applications.
- Cellular communications – real-time monitoring and switching control, no communications cabling required
- Compact form factor of 2 poles wide (36mm) excluding contactors
- Device and switching status indicators (LEDs) on the front of the unit

## Use cases

- Hot water control
- Electric vehicle charging
- Home energy management
- Solar inverter control
- Peak load or maximum demand management

## Contactors

The Auditor 6M+3SW works with contactors driven by 230V AC (50Hz) control coil voltage. Wattwatchers supplies 25A to 63A contactors for single-phase and three-phase applications. The single-phase contactor is 1-pole wide (18mm) and the three-phase contactor is 2-pole wide (36mm). The contactors are rated for 1,000,000 cycles of manual switch operating life and 100,000 cycles of electrical coil operating life.

# Datasheet

## POWER SUPPLY CHARACTERISTICS

<b>Input-voltage</b>	80-265 V AC
<b>Power consumption</b>	2W
<b>Power tails</b>	1 metre single-phase or three-phase

## ENERGY MEASUREMENT SPECIFICATIONS

<b>Energy measurements</b>	<b>Short energy</b>	Configurable from 5 seconds to 295 seconds (default is 30 seconds) Push to server - best effort delivery (QOSO) Real energy, reactive energy, voltage, current, frequency, power factor
	<b>Long energy</b>	5 minute intervals; servers request logged data Real energy, reactive energy, min/max voltage, min/max current, power factor
	<b>Voltage</b>	1P2W, 2P3W, 3P4W 80-265V, 0.1V resolution
	<b>Current</b>	Split core CTs - 60A(10mm), 120A(16mm), 200A(25mm), 400A(25mm), 600A(36mm)
	<b>Frequency</b>	45Hz to 60Hz 0.01Hz resolution
	<b>No. of channels</b>	6
<b>Measurement accuracy</b>	<b>Active energy</b>	Class 1 based on IEC 62053-21
	<b>Reactive energy</b>	Class 2 based on IEC 62053-23
<b>On-device storage</b>		Up to 25 days on-device of long energy logging capacity to ensure complete data

## MECHANICAL CHARACTERISTICS

<b>Weight</b>	0.3kg
<b>IP degree of protection</b>	IP50 (front display) when installed inside switchboard
<b>Dimensions</b>	89x77x36 mm (2 DIN poles)
<b>Mounting</b>	Certified for Level III environment - meter and distribution boards
<b>Voltage connections</b>	3 voltage references plus neutral
<b>Current sensor connections</b>	6 channel inputs

## ENVIRONMENTAL AND SAFETY CONDITIONS

<b>Ambient operating temperature</b>	-10°C to +55°C
<b>Installation/pollution category</b>	III / 2
<b>Electromagnetic immunity</b>	Level III (IEC 61000-4-2) Level III (IEC 61000-4-3) Level III (IEC 61000-4-4) Level III (IEC 61000-4-5)
<b>Safety</b>	Certified for Level III environment - meter and distribution boards

## CERTIFICATIONS

<b>Responsible Supplier Number</b>	E5258
<b>Safety</b>	AS/NZ 60950.1:2015 EN 60950-1:2006 UL 6101.1 (2003)
<b>Emissions</b>	AS/NZ CISPR 22 (2009+Am1 2010) FCC Part 15B
<b>Immunity</b>	CISPR24:2010, CISPR 3:2015
<b>FCC ID</b>	QIPELS61
<b>Related spurious emissions</b>	AS/NZS 4268:2008 +A1:2010 C 8.2 and 9.1 EN 300 328 with reports FCC sDoC 47 CFR Part15, Subpart B
<b>ARPANSA RP3</b>	AS/NZS 2772

## COMMUNICATIONS

<b>Cellular</b>	<b>Type</b>	Multi-network 3G/4G LTE Pentaband with regional variants available covering Australia/Asia, Europe/Middle East and US/North America
	<b>SIM</b>	Factory-fitted internal micro-SIM
<b>Hardware</b>	<b>Antenna</b>	SMA connector Supplied with a multi-band stubby antenna Optional external or high gain antenna options available to boost reception if required

## SWITCHING

<b>Switching channels</b>	<b>Channels</b>	3 independent switching channels controlled via MyEnergy app or API
	<b>Coil rating</b>	240V AC nominal 100mA per switching channel
	<b>Type</b>	Zero-crossing control to minimise inductive stress on contactors



## CONTACTORS

<b>Standards</b>	IEC/EN61095
<b>Control coil voltage</b>	240V AC 50 Hz
<b>Rated current, poles, and size (width)</b>	1-phase 25A 2P: 1x NO and 1x NC (18mm) 3-phase 25A 3P: 3x NC (36mm)  Other ratings are available upon request
<b>Insulation voltage (UI)</b>	500V
<b>Rated impulse withstand voltage (Uimp)</b>	2.5 kV (4 kV at 12/24/48V AC)
<b>Pollution degree</b>	2
<b>Manual switch operating life</b>	1,000,000 cycles
<b>Electrical coil operating life</b>	100,000 cycles
<b>Cable terminal size (CSA)</b>	Up to 12mm <sup>2</sup>
<b>Mounting type</b>	DIN Rail 35mm

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