

ACE1000 SMO

Electronic Single-Phase Electricity Meter

The Itron ACE1000 SMO is an extremely compact sealed-for-life electronic credit meter for single-phase residential applications, and is the latest in a long and successful line of residential metering products from Itron.

The mechanical register is designed for easy reading and is tamper-proof so cannot be influenced by external magnetic forces.

Cost Effective Revenue Metering

Specifically designed to provide cost-effective, entry level functionality for customer revenue metering, the ACE1000 SMO combines modern metering technology with a well-proven electromechanical drum-register, to deliver outstanding performance.

Long-Life

The meter is manufactured to the highest standards of quality, reliability and accuracy to give optimum life cycle performance, which means zero refurbishment costs over the life of the product. At the end of life, the ACE1000 SMO also has the additional advantage of a reduced environmental burden, when compared to LCD-type meters.

Compact and Lightweight

Designed with a significantly reduced footprint when compared to more traditional metering equipment, the ACE1000 SMO is simple to install and can serve to minimise storage and transportation costs, a factor which is becoming an increasingly important consideration in today's competitive marketplace.

Simple, Easy-to-Read Register

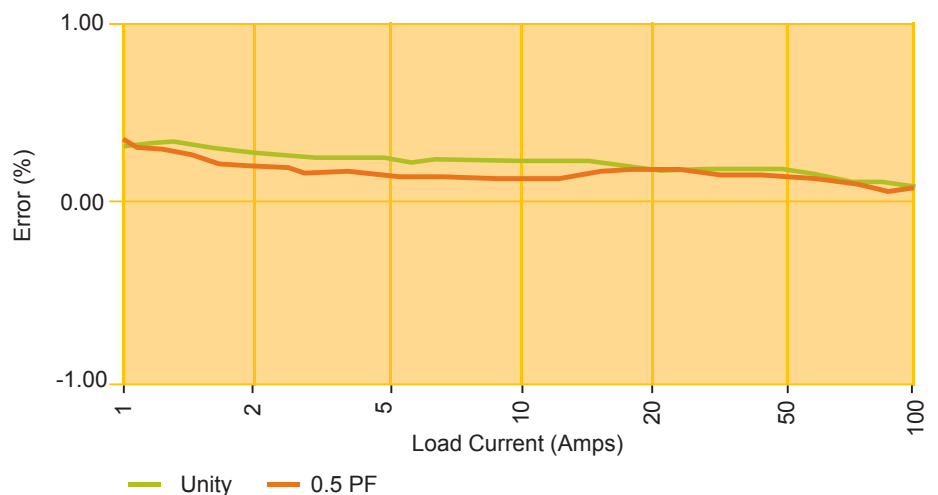
The ACE1000 SMO is fitted with a traditional electromechanical drum-register, which offers superior readability and reliability when compared to electronic displays, and offers the additional advantage of allowing the meter to be read when de-energised.



> ACE1000 SMO

- Compact and lightweight sealed-for-life design
- Long-life electromechanical drum register
- Reduced environmental burden
- Fraud protection

> Typical Performance Curves



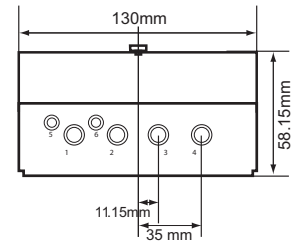
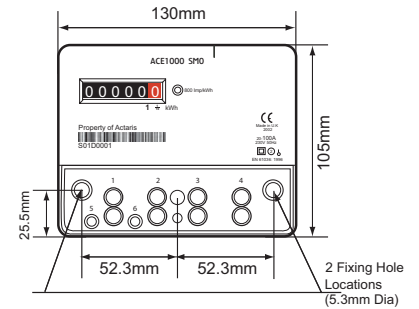
Technical Characteristics

Meter type	Electronic single phase watt-hour meter
Approval	EN61036: 1996 (indoor meter)
Measuring scope	Active energy
Class Index	Class 1 and Class 2
Register	Single rate drum-register with 5+1 digit (10Wh) resolution
Network	1 phase 2 wire
Reference voltage/frequency	110-120V or 220-240V 50-60Hz
Operating voltage range	-20% to +15%
Power consumption	0.2VA 20A 0.8W 8VA max. 230V
Basic current	10(A), 15(A), 20(A)
Maximum current	40(A), 60(A), 100(A)
Starting current	0.4% I _b for Class 1 (EN61036: 1996)
Meter constant	800 imp / kWh
Indicators	Forward energy indicated by red LED (unmodulated at 8kHz) Reverse energy indicated by green LED
Operating temperature range	-10°C to +45°C
Limit temperature range of operation	-20°C to +55°C
Limit transportation range for storage and transport	-25°C to +70°C (storage and transport of the meter should only be at the extremes of this temperature range for a max. period of 6 hours)
Degree of protection (BS EN60529)	IP51
Terminal material	Brass
Terminal arrangement	BS 7856
Pulse output	DIN 43 864 (optional)
Wiring capacities	Main cables must be a minimum of 25mm ² and up to a maximum of 35mm ² (copper)
Material	Meter case, base and terminal cover - recyclable polycarbonate
Terminal cover seal	Bowden seal
Meter weight	0.4kg
Dimensions (L x W x D)	130mm x 105mm x 58.15mm (with standard cover) 130mm x 157.2mm x 58.15mm (with extended cover)

CE The ACE1000 SMD complies with Council Directive 89/336/EEC on Electromagnetic Compatibility as amended by Council Directive 92/31/EEC (Statutory Instrument 1992 No. 2372 Electromagnetic Compatibility).

Manufactured under a quality system approved to ISO9001

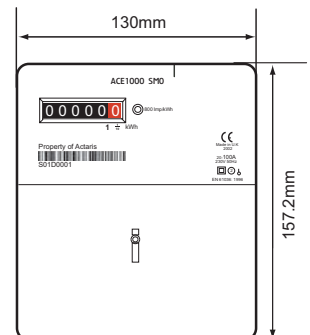
> Dimensions



> Terminal Identification

1. Live (in)
2. Neutral (in)
3. Neutral (out)
4. Live (out)
5. Aux (-)
6. Aux (+)

> Extended cover version



About Itron Inc.

Itron Inc. is a leading technology provider to the global energy and water industries. Our company is the world's leading provider of metering, data collection and utility software solutions, with nearly 8,000 utilities worldwide relying on our technology to optimize the delivery and use of energy and water. Our products include electricity, gas and water meters, data collection and communication systems, including automated meter reading (AMR) and advanced metering infrastructure (AMI); meter data management and related software applications; as well as project management, installation, and consulting services. To know more, start here: www.itron.com



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