Honeywell | Smart Energy

A1100 Dual Rate Meter

Electronic Polyphase meter for commercial and industrial applications

The A1100 dual rate with Liquid Crystal Display conventional 3 phase electricity meter from Elster is a cost effective, high quality, reliable and robust product that is available ex-stock supported with technical advice and training from Elster Solutions.

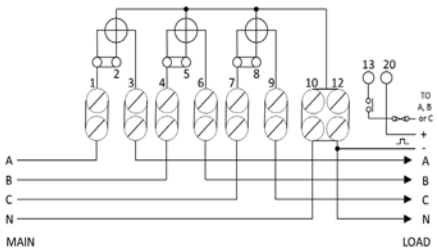
The meter complies with the latest national and international metering standards. Elster Solutions (Pty) Ltd is accredited to IEC 17025:2005 to provide individual meter accuracy verification certificates when requested.

The A1100 Dual Rate electricity meter provides import kWh measurement for use in both large residential and light commercial 100 Amp direct connected kWh metering applications. The A1100 usually operates as a stand alone unit but can be part of a comprehensive AMR metering system via the Modbus or IrDA interface unit. The data stream mode provides all metering and security data and this facilitates very cost effective AMR solutions.

Cost-effective polyphase metering...

Features

- 3 Phase Dual Rate import kWh 100A Direct Connect variant
- Facilitates auxillary power monitoring
- Short terminal cover optional
- Large 9.8 x 3.5mm digit LCD display
- Accuracy class 1.0 for 100A
- Compact & High Security Cover Design
- Serial Data Stream output via RJ12 serial communications port
- Chevrons for phase presence and security indication
- 15 Year Design Life



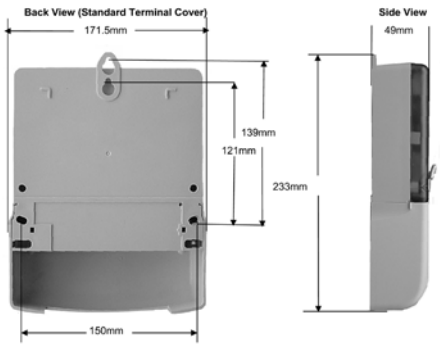
Technical Data

Current Range Voltage Range Frequency	Direct connected 20 – 100A 230V (L-N) 50Hz
Burden Voltage Circuits (230V) Current Circuits	 0.9W, 9VA capacative burden/phase [max] 2VA @ 100A/phase [max]
Insulation Impulse withstand	4kV RMS 50Hz 12kV 1.2/50µs 500 ohm source
Display LCD	9.8 x 3,5mm characters High contrast, wide angle
Irda Serial Output	2400 Baud
Product Life	15 years
Certified Product Life	10 years
Temperature Humidity	-40° to +55° C (Operational range) -40° to +85° C (Storage) Annual mean 75% (For 30 days spread over one year, 95%)
Weight	860 grams
Specifications Case	Class 1.0 kWh IEC 62053:21 IP53

Options

- IEC 17025:2005 accuracy verification certificate and test report
- Data Stream Protocol provided in manual
- Training Courses for meter installation and communication at Elster
- 3 Phase Single Rate Import kWh 5A variant available

Dimensions and Fixing Centre



Communication Devices

- Modbus Converter
- Kocos Irda Interface

Honeywell | Smart Energy
60 Commando Road, Industria Extension 2, Johannesburg, South Africa
Tel: +27 (0) 11 490 4970 | Fax: +27 (0) 11 490 4971

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A100C Dual Rate Meter

BS Electronic Single Phase Meter for residential applications

The A100C Dual Rate residential and light commercial single phase electricity meter from Elster is a cost-effective, high quality, reliable and robust product which is available ex-stock and supported with technical advice and training from Elster Solutions.

The A100C dual rate meter complies with the latest national and international metering standards. Elster Solutions (Pty) Ltd is accredited to IEC 17025:2005 and can provide individual meter accuracy verification certificates to this standard when requested.

The A100C electricity meter provides import kWh Rate 1 and Rate 2 measurement for use in single phase applications upto 100A. The A100C usually operates as a stand alone unit that is read manually but can be part of comprehensive metering AMR/AMI system when the serial data stream is integrated with appropriate communication and control devices.

Compact yet advanced domestic metering...

Features

- Single Phase Dual Rate import kWh 100A Direct Connect variant
- Facilitates auxillary power monitoring
- Large 9.8 x 3.5mm digit LCD display
- Accuracy class 1.0 for 100A
- Compact & High Security Cover Design
- Serial Data Stream output via auxiliary terminal
- Chevron for security indication
- 20 Year Design Life

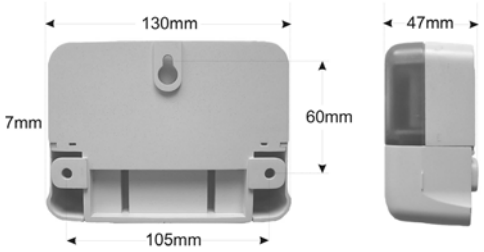
Technical Data

Technical Data	A100C
Current Range	20-100A
Voltage	230V
Frequency	50 Hz
System	1 Phase 2 Wire
Capacitive Burden (230V)	0.66W 8.5VA
Insulation	4 kV RMS 50 Hz
Impulse Withstand	12 kV 1.2/50 µS 40 ohm source
Display - High Contrast Wide Angle	9.8 mm x 3.5 mm characters
IRDA Data (Serial)	Serial Communication via 2 auxiliary terminals at 2400 Baud
Serial IRDA Data Provided	KWh Rate 1, kWh Rate 2, Security.
Certified Product Life	20 Years (OFGEM) Model
Temperature	-20 to +55˚C (Operational Range) -25 to +85˚C (Storage)
Humidity	75% (30 Days over 1 year 95%)
Weight	350 grams
Specifications kWh Class 1.0	 IEC 62053:21
Case Ingress Protection	IP53 IEC 60529:1989

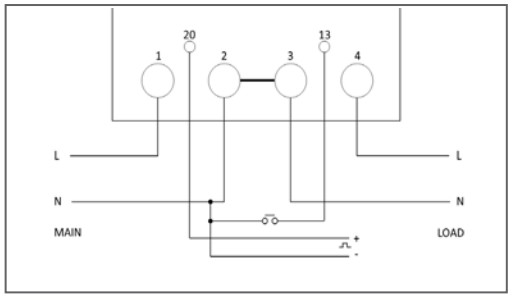
Options

- IEC 17025:2005 accuracy verification certificate and test report
- Protocol Available in Manual
- Training Courses for meter installation and communication at Elster

Dimensions and Fixing Centre



Terminal Arrangements



Accreditation:

IEC 62053-21

Communication Devices

- Modbus Converter (Dual Rate)
- Kocos IrDA Interface

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60 Commando Road, Industria Extension 2, Johannesburg, South Africa
Tel: +27 (0) 11 490 4970 | Fax: +27 (0) 11 490 4971