



100A Direct Connected kWh Meters

Models Available

A100C Single Phase 100A Direct kWh Meter

A1100 Three Phase 100A Direct kWh Meter

Product Features

- Active energy (kWh) measurement
- 100A direct connection
- Single phase and 3 phase versions
- Surface mounting enclosure
- OFGEM approved
- Non-resettable
- Pulsed output option

Direct connected kilowatt hour meters are suitable for the monitoring of active energy (kWh) in all types of metering applications of supplies up to 100A. Models are available for single phase and three phase, balanced or unbalanced loads and all the meters are OFGEM approved.

The meters are housed in a surface mounting enclosure and have a liquid crystal display. The meters have a non-volatile memory providing count retention in the power off condition and eliminating the need for any auxiliary power supply.

All meters are available with an optional voltage free pulsed output for input to data loggers, PLC's, building management systems or computers.

kWh Meters – for measuring energy (kWh) consumption up to 100A directly

Specification

Approval:

- OFGEM

Accuracy:

- A100C class 2 to IEC 62053-21
- A1100 class 1 to IEC 61036

Counter:

- 7 digit high contrast wide angle LCD
- 9.8mm x 3.5mm digits

Counter Resolution:

- 0.1 kWh

Pulse Resolution:

- 0.01 kWh

Input Current, I_n :

- 20-100A direct connected

Input Voltage, U_n :

- A100C: 230V
- A1100: 3x230/400V

Voltage Variation:

- A100C: 210-250V
- A1100: 220-240V-L-N

Frequency:

- 50Hz (60Hz available upon request)

Test Voltage:

- 4kV rms 50Hz for 1 min (to IEC 414)

Impulse Withstand:

- A100C: 12kV 1.2/50 μ s 40ohm source
- A1100: 12kV 1.2/50 μ s 500ohm source

Burden:

- A100C: 0.66W (8.5VA) capacitive
- A1100: 0.9W (9VA) capacitive

Specification Continued

Current Circuit Burden:

- A1100: 2VA at 100A/phase (maximum)

Pulsed Output:

- 20mA at 27Vdc maximum
- 100ms pulse length

Pulsed Output Ratio:

- 100 pulses/kWh (=10Wh/pulse)

Optical Test Output:

- A100C: LED flashes 1000 imp/kWh
- A1100: LED flashes 500 imp/kWh

Enclosure Code:

- Case IP53 to IEC 60529

Operating Temperature:

- -20°C to 55°C

Storage Temperature:

- -25°C to 85°C

Humidity:

- Annual mean 75%
- 95% for 30 days spread over one year

Certified Product Life:

- A100C: 20 years
- A1100: 10 years

Connections:

- Screw type terminals

Weight:

- A100C 350g, A1100 900g

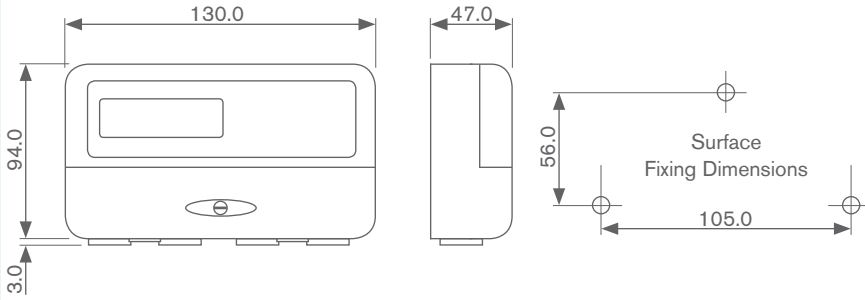
Markings:

- CE marked

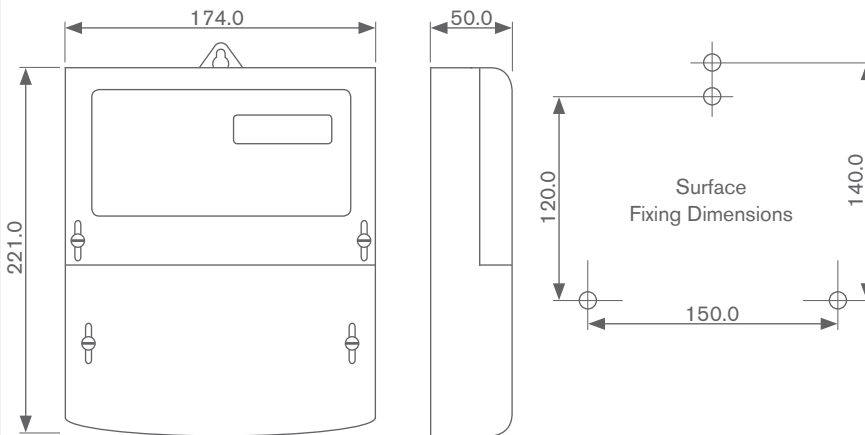
Specification subject to change without notice.

Dimensions

A100C



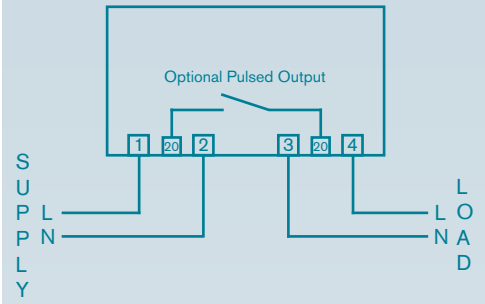
A1100



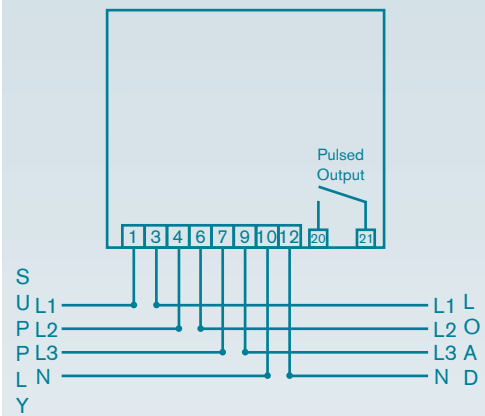
All dimensions in mm

Connections

A100C



A1100



Ordering information

Code	Meter Type	Options
A100C	Single Phase 100A kWh Meter	-
A1100	Three Phase 100A kWh Meter	-
P	-	Pulsed Output (Opto-isolated)
Example	A100C	P