

Single Phase Data Logger

EnergyConnect Part No: ELS-SINGLEPHASE



Technical Data

Current Range	10-65A, 5-65A
Voltage Range	210-250V, 105-127V
Frequency	50 or 60Hz
System Connection	1 phase, 2 wire
Burden (230V)	0.66W, 8.5VA (Capacitive burden)
Insulation	4kV RMS 50Hz
Impulse Withstand	12kV 1.2/50µs 40ohm source
Display	9.8mm x 3.5mm characters, High contrast, wide angle
IrDA Baud Rates	2400, 4800 or 9600 (Without serial port)
IEC 62056-21 Rate	9600
Serial Baud Rates	2400 or 4800
Certified Product Life	20 years (OFGEM model)
Temperature	-20° to +55°C (Operational range) -25° to +85°C (Storage)
Humidity	Annual mean 75% (For 30 days spread over one year, 95%)
Pulse Output	100ms pulse 200p/kWh (=5Wh/pulse) (Other pulse rates, durations available)
Weight	400 grams
Specifications	kWh Class 1 or 2 EN 62053-21:2003 kvarh Class 2 or Class 3 EN 62053-23:2003
Case	IP53 to IEC 60529:1989

The A100C is housed in an extremely compact case. The meter offers one or two rates and can be used for import only applications or import/export for domestic small scale generation sites.

The liquid crystal display has large (9.8mm), high contrast digits that can be viewed from a wide angle. Chevrons and multilingual legends on the nameplate identify the values being displayed.

To enhance security, the main meter cover is permanently secured to the base during the manufacturing process. Security features include reverse run energy total and count; power fail and elapsed time count; hours in anti-creep, hours in rate 1 and rate 2 and hours since last power up time. These are stores as security data and can be included as part of the display sequence.

Features

- Accuracy Class 1 or Class 2
- kWh import
- 20 years product life
- Large digit (9.8mm) multilingual display with chevron information indication
- Extensive security data
- IrDA communications
- 12kV impulse withstand
- High security, compact design
- DIN or BS double insulated, glass filled polycarbonate case
- Permanently fixed main cover
- IP53 in accordance with IEC 60529:1989

Options

- Import /Export
- IrDA or IEC 62056-21 (Formerly IEC 1107) comms
- One or two rates controlled by external device
- Auxiliary terminals configured for:
 - SO Pulse output (IEC 62053-31)
 - Serial data output (IrDA)
- A102C – kWh and kvarh energy measurement

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