

# SINGLE PHASE ELECTRONIC ELECTRICITY METER - CM100LCD

The emlite single phase meter provides a compact solution for many metering applications.

Fully approved in accordance with the Measuring Instruments Directive (MID), this highly accurate meter may be used for utility billing or micro - generation metering.

The ECA2 single phase meter is one of the worlds most compact metering devices allowing the unit to be used in metering installations where space is at a premium.

The meter provides measurement of active (kWh) energy in both import and export directions with registers shown on the large easy to read LCD display. The display features 8x3.5mm characters and can be configured to auto cycle any of the available registers or remain static with only a single register viewable.

The meter features an optical port conforming to IEC 629056-21 allowing meter readings to be collected electronically using a standard probe and software tool. The port also allows configuration of the meter.

The electronic meter is highly reliable and capable of withstanding high voltage events and overcurrent without failure. The meter is resistant to tamper with reverse energy fraud detection and sealing for life.

High quality solid brass cable terminals are used allowing 100 Amp operation.

To enable the connection of energy management systems, an electronic pulsed output version is available. The pulsed output connects onto two auxiliary terminals in the main terminal block.



## Key Features -

- Fully MID approved
- Measures Import and Export Active Energy
- Easy-to-read LCD Display
- Optical port for configuration or meter reading
- Pulsed Output version available



**CM100/LCD/ETC  
Extended Terminal version  
also available!**

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# SINGLE PHASE ELECTRONIC ELECTRICITY METER - CM100LCD

Electrical		
Voltage	Nominal voltage	220V–240V
	Maximum	276V
	Voltage withstand	415V (maximum 6 hours)
Frequency	Nominal frequency	50Hz
	Frequency variation	± 5%
Current	Basic current (Iref)	5, 10, 15 and 20A
	Maximum (Imax)	100A (140% overcurrent)

Metrology		
Accuracy	Active energy	Class B (1%), to EN 50470 1-3

The meter meets the essential requirements of the Measuring Instruments Directive (MID) 2004/22/EC

Environmental	
Temperature Range	-40°C to +70°C
Ingress protection	IP52, to BS EN 60529

Meters are intended for installation in a in a class E2 electromagnetic environment and Class M1 Mechanical Environment according to 2004/22/EC Directive

Physical	
Terminal arrangement	BS 7856
Main Terminal size	8.2 mm diameter
Terminal Construction	Solid brass

**Dimensions: H 91mm x W 125mm x D 40mm**

