

# Single Phase Electronic Electricity Meter



**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.**



## 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

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 8×3.5mm 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.

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# Single Rate Electronic Electricity Meter

## Technical Data

|                   |           |                      |                               |
|-------------------|-----------|----------------------|-------------------------------|
| <b>Electrical</b> | Voltage   | Nominal voltage      | 220V—240V                     |
|                   |           | Maximum              | 276V                          |
|                   |           | Voltage withstand    | 415V (maximum 6 hours)        |
|                   | Frequency | Nominal frequency    | 50Hz                          |
|                   |           | Frequency variation  | ± 5%                          |
| <b>Metrology</b>  | Current   | Basic current (Iref) | 5, 10, 15 and 20A             |
|                   |           | Maximum (Imax)       | 100A (140% overcurrent)       |
|                   | Accuracy  | Active energy        | Class B (1%), to EN 50470 1-3 |

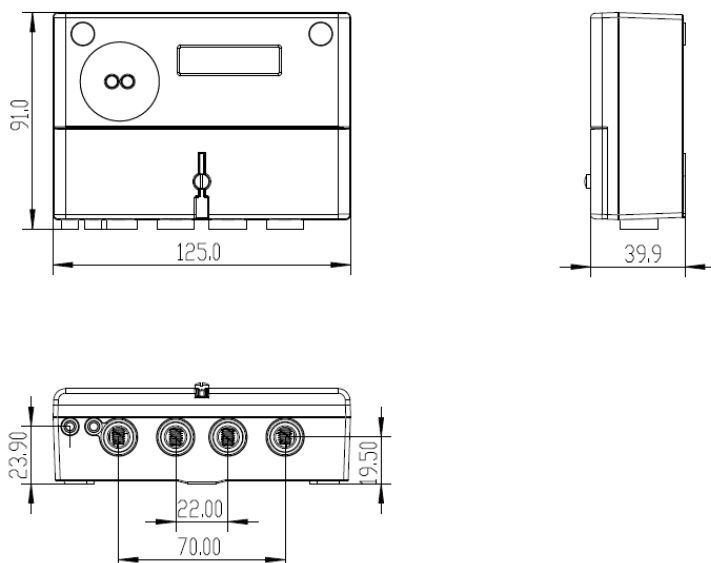
The meter meets the essential requirements of the Measuring Instruments Directive (MID) 2004/22/EC

|                      |                    |                      |
|----------------------|--------------------|----------------------|
| <b>Environmental</b> | 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

|                 |                       |                 |
|-----------------|-----------------------|-----------------|
| <b>Physical</b> | Terminal arrangement  | BS 7856         |
|                 | Main Terminal size    | 8.2 mm diameter |
|                 | Terminal Construction | Solid brass     |

|                   |              |
|-------------------|--------------|
| <b>Dimensions</b> | 91H×125W×40D |
|-------------------|--------------|



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