

Three Phase Whole Current and LV/CT AMR Meter



The emlite EMP1 programmable Three phase whole current and LV/CT metering range offers high quality accurate metering for direct connected and current transformer installations. The EMP1 range of meters are ideal for large residential, Solar PV, commercial and light industrial applications.

Features -

- MID/MIR/IEC and BSC601 approved
- LTE-M communication module
- Pulsed output x 2 (model dependent)
- IEC 62056-21 optical communications port
- 4 quadrant (Import and Export, Active and Reactive Energy)
- Solid brass terminals
- Programmable integration periods for profiling
- Power Quality Information - Volts, Current, Power etc.



The EMP1.* is a whole current and LV/CT 3 phase 4 wire AMR meter. Supplied inclusive with one of the latest LTE-M communications modules making it an ideal solution for most three phase installations up to 100KW. As well as MiD/MiR and IEC compliance the EMP1 range is also approved for BSC601 code of practice 5 and 10 settlement when data is collected via an approved data collector.

- Accuracy Class A or B (MiD/MiR), IEC Class 1 [active energy] and CI 2 [reactive energy*]
- Independent per phase kWh recording
- Comprehensive seasonal tariff options with Maximum demand
- Optional Configurable pulsed outputs and tariff control relay.
- Multiple terminal cover options (Short, Extended(Standard), Extended plus) as well as an optional finger guard for main terminals
- Clear easy to read LCD with specific symbols for different quantities.
- Solid Brass terminals with slotted screws for reliable installation
- Robust and solid construction
- Independent per phase kWh recording

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Optional Pulsed Output

Up to 2 x opto-isolated pulse output can provide data for collection by an energy management system or AMR data logger. These pulses are output via the meter's auxiliary terminals.

The output conforms to IEC 62053-31.

Technical Data - Meter

Electrical

Network	Connection	3phase 4wire
Operating voltage	Voltage	3 x 230v 400V
Frequency	Nominal frequency	50Hz, variation $\pm 2\%$
Current	Basic current (Iref)	5(CT) 5, 10, and 20*
Direct connected	Maximum (Imax)	100A per phase
CT	Maximum (Imax)	6A per phase

Metrology

Accuracy	Active energy	Class B, to EN 50470 1-3*
		Class 1 according to BS EN 62052-11,62053-21
	Reactive energy	Class 2, to IEC 62053-23

Environmental

Temperature Range	-25°C to +55°C
Ingress protection	IP54, to BS EN 60529

Physical

Terminal arrangement	DIN43857-Part 2, fixing centres of 150 $\pm$ 1mm
Main Terminal size	8.2mm $\varnothing \pm 0.2$
Terminal Construction	Solid brass

