

# VOLTEX® PRODUCT DATA SHEET

## Energy Meter EM-40-1P



The single-phase energy meter equipped with a capacitive touch button that allows the user to scroll measurements.

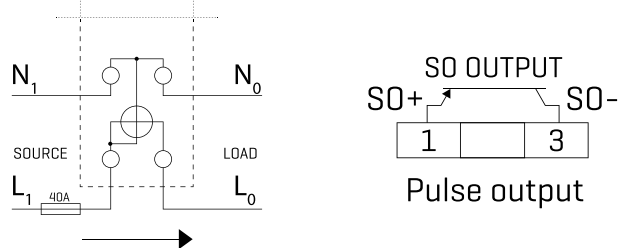
Calculates active/reactive/apparent power and energy, current, voltage, frequency, power factor, power angle, and frequency from the measured signals. This meter can also perform basic harmonic analysis (THD-U, THD-I). This enables a quick overview of harmonic distortion either coming from a network or generated by the load.

### Specifications

Type	Single-phase [1b]
Reference current [Iref]	5A
Maximum current [Imax]	40A
Minimum current [Imin]	0.25A
Transitional current [Itr]	0.5A
Starting current	20mA
Power consumption at Iref	< 0.1VA
Nominal voltage [Un]	240V [-20% - +15%]
Power consumption at Un	< 10VA
Nominal frequency [f]	50Hz - 60Hz
Minimum measuring time	10s
Mounting	DINrail mounted
Power Supply terminals	Capacity: 1.5 mm <sup>2</sup> - 10mm <sup>2</sup> Ferrule contact length 12 mm, wire stripped to 14 mm] Connection screws: M3.5 Max torque: 0.8 Nm
Auxiliary terminals	Capacity: 0.05 mm <sup>2</sup> - 2.5 mm <sup>2</sup> Auxiliary terminals screws: M3 Max torque: 0.6 Nm
Accuracy	Active energy: class 1 EN 62053-21, class B EN 50470-3 Reactive energy: class 2 EN 62053-23
LCD	Number of digits: 7 Height of digits: 5.5 mm
Pulse output	Pulse rate: 1 imp/Wh Pulse duration: 32 ms ± 2 ms Rated voltage DC: 27 V max Switched current max 27 mA max Standard: EN 62053-31 [A&B]

Protection	IP50
Operating temperature	-25°C - +55°C
Storage temperature	-30°C - +70°C

### Connections



### Dimensions

