



ENGLISH

Professionally approved products.

Datasheet Stock Number: 144-0528 (Digital) / 144-0530 (Analogue)

1 Phase kWh Meter 45A MID

DIN Rail Power Meter.



CE  RoHS MID

UK

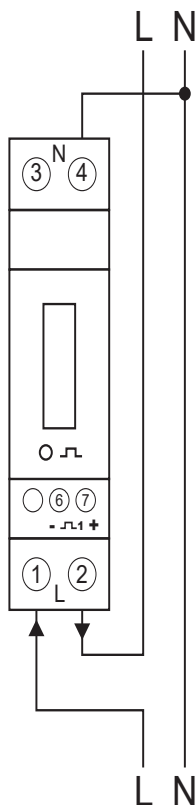
The 144-0528 / 144-0530 is a single-module power monitor that will measure and display kWh used. They offer a low-cost solution to metering low Amp circuits. The meters work directly connected to a maximum load 45A AC circuit.

The meters are housed in a 1U Dinrail mounted housing. They also come complete with sealable terminal covers to stop any tampering with the connections. They also come with a built in pulsed output for remote monitoring

Performance Criteria

- Operating Humidity $\leq 85\%$
- Storage Humidity $\leq 95\%$
- Operating Temperature $-25^{\circ}\text{C} - 55^{\circ}\text{C}$ (3K6)
- Storage Temperature $-30^{\circ}\text{C} - 70^{\circ}\text{C}$
- International Standard IEC62053-21
- Accuracy Class 0.5 or 1.0
- Protection (Dust/Water) IP51

Dimensions & Wiring Diagram



Specifications

Measured Parameters

The unit can monitor and display Imported Active Energy (kWh) of a single phase two wire (1p2w) system.

Features

- Class 1 kWh according to EN62053-21
- Class B according to EN50470-3
- Maximum Energy Reading 99999.9 kWh
- 1-DIN Module
- Self-supplied Auxiliary Power Supply
- IP51
- Pulsed Output

Meter Specifications

- Nominal voltage 230V AC 110V AC
- Operational voltage $0.7-1.3U_n$
- Insulation capabilities:
- AC Voltage Withstand 4kV for 1 minute
- Impulse Voltage Withstand 6kV-1.2 μ S waveform
- Basic Current (I_b) 5A
- Maximum Rated Current (I_{max}) 45A
- Operational Current Range 0.4% I_b-I_{max}
- Over Current Withstand 20I_{max} for 0.01s
- Operational Frequency Range 50-60Hz $\pm 2\%$
- Internal Power Consumption $\leq 2\text{W} / 10\text{Va}$
- Test Output Flash Rate (Red LED) 1000imp/kWh
- Pulse Output Rate 1000imp/kWh
- Data Save > 20 years when power off.

Specification to change without notice.

