

## FEATURES

- Digital power meter
- 4-module DIN (Deutsches Institut für Normung, the German Institute)
- Measures and displays total active energy of a 3-phase circuit
- Class 1 accuracy as defined by EN62053-2
- Pulsed output
- Easy-to-read, 7-digit LCD display
- Straight through connection
- Maximum energy reading of 99999.9kWh
- Data saving for at least 20 years when turned off
- Pulse rate of 1,000+ per kWh
- IP51-rated enclosure protects against dust and condensation

## RS PRO 3 Phase LCD Digital Power Meter with Pulse Output

RS Stock No.: 144-0532



RS Professionally Approved Products bring to you professional quality parts across all product categories. Our product range has been tested by engineers and provides a comparable quality to the leading brands without paying a premium price.

## Product Description

This 3-phase LCD digital power meter from RS PRO can be used in demand-side management, sub-metering or energy-monitoring applications. It has Measuring Instruments Directive (MID) B and D approval as certified by SGS UK, meaning it can be officially used for any type of sub-billing application. You can connect the meter directly to circuits with a maximum load of 100 A ac without having to use a current transformer.

The meter is housed in a metal DIN rail-mounted housing and has a pulsed output for remote monitoring. It provides readings of class I accuracy in accordance with the EN 62053-2 standard on electricity metering equipment and is certified as a safe and effective class B monitor in accordance with EN 50470-3. The housing is IP51-rated for protection against dust and condensation.

## General Specifications

<b>Meter Type</b>	Digital
<b>Display Type</b>	LCD
<b>Number of Digits</b>	7
<b>Meter Accuracy</b>	Class 1
<b>Mounting Type</b>	4U DIN-Rail Mounting
<b>Type of measurement</b>	Voltage, Current
<b>Colour</b>	White
<b>Applications</b>	Demand-side management, sub-metering and energy monitoring applications

**Electrical Specifications**

Number of Phases	3
Pulse Output	Yes/No
Maximum Measurement	99999.9kWh
Minimum Measurement	0kWh
Measurement Range	0kWh to 99999.9kWh
Current Range	5A
Frequency	50Hz - 60Hz.
Rated Current	45A
Rated Voltage	400VAC
Maximum Load	100A AC
Maximum Power Consumption in VA	10VA
Maximum Power Consumption in W	≤2W
Rated Impulse Withstand Voltage	6kV-1.2μS waveform

**Mechanical Specifications**

Depth	66MM
Depth	66mm

**Operation Environment Specifications**

Minimum Temperature	-20°C
Maximum Temperature	+50°C
Storage Temperature	-30°C to +70°C
Operating Humidity	≤ 85%
Storage Humidity	≤95%

**Protection Category**

IP Rating	IP51 (Dust / water)
-----------	---------------------

## Approvals

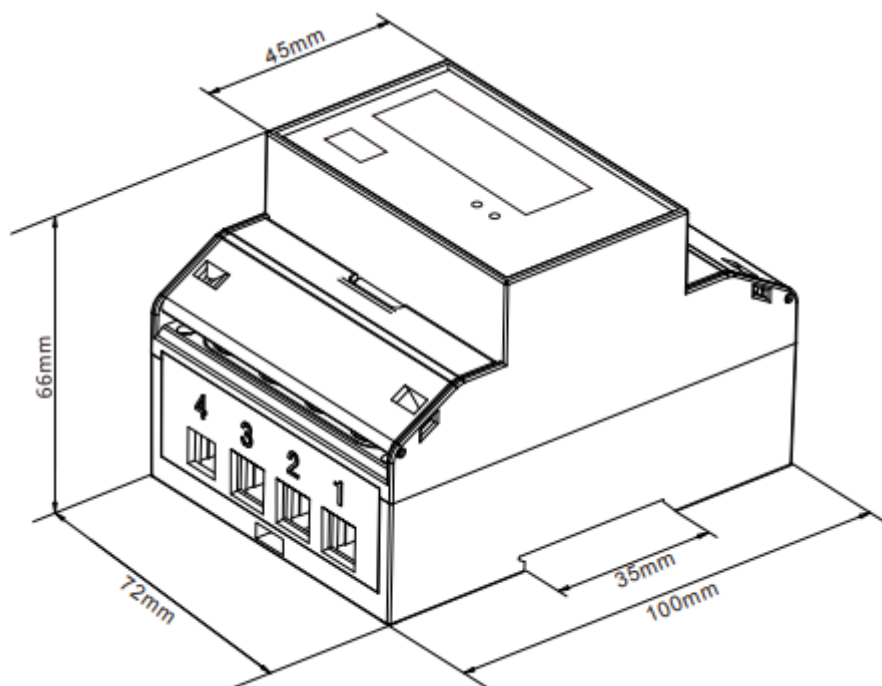
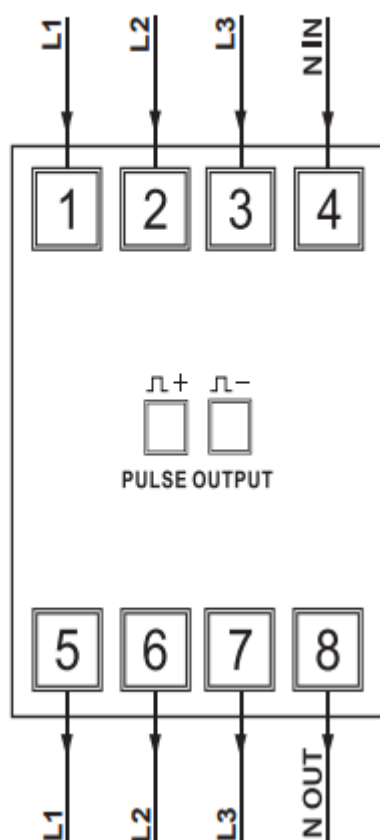
<b>Compliance/Certifications</b>	CE, EN62053-2, IEC62053-21, EN50470-3, RoHS (Restriction of Hazardous Substances) Compliant
<b>Approvals</b>	MID Certified



### Meter Specifications

- Nominal voltage 400V AC
- Operational voltage 0.7-1.3Un
- Insulation capabilities:
- AC Voltage Withstand 4kV for 1 minute
- Impulse Voltage Withstand 6kV-1.2μS waveform
- Basic Current (Ib) 5A
- Maximum Rated Current (Imax) 45A
- Operational Current Range 0.4% Ib-Imax
- Over Current Withstand 20Imax for 0.01s
- Operational Frequency Range 50-60Hz ±2%
- Internal Power Consumption ≤ 2W / 10Va
- Test Output Flash Rate (Red LED) 1000imp/kWh
- Pulse Output Rate 1000imp/kWh
- Data Save > 20 years when power off.

## Dimensions & Wiring Diagram



06/07/2017 Version No. 1.0