



## THREE PHASE MULTI-FUNCTION POWER ANALYZER

Model No: SMART-SME 204D

- 100A Direct Load
- Work with 3P4W/3P3W/1P2W
- 4 Module 72mm wide
- Bi-Directional Measurement
- 2 Pulse Outputs
- RS485 Modbus
- 2 Tariffs Available (Dual Power Source)
- Multi-measurement:kWh,kVarh,W,Var,VA,PF,Hz,dmd,V,



## INTRODUCTION

The Smart Controller series series measures and displays the characteristics of 1p2w, 3p3w and 3p4w supplies, including voltage, frequency, current, power, active and reactive energy, imported or exported, harmonic etc. Bi-directional measurement makes it an ideal choice for Solar PV measurement.

The units support Max. 100A direct connection, saving the cost and avoiding the trouble to connect external CTs. Two pulse outputs and 1 communication port (Mbus/Modbus) are provided for remote monitoring.

The unit has been approved to meet the requirements of EU Directive 2014/32/EU.

## MEASUREMENT

Power	0.5% of range maximum
Active Energy	IEC 62053-22 Class 0.5S, IEC 62053-21
Reactive Energy	IEC62053-23 Class 2, IEC 61557-12 Class 2
Frequency	0.1% of mid-frequency
Current	0.2% of range maximum
Voltage	0.2% of range maximum
Power Factor	1% of unity (0.01)

## INPUT-OUTPUT

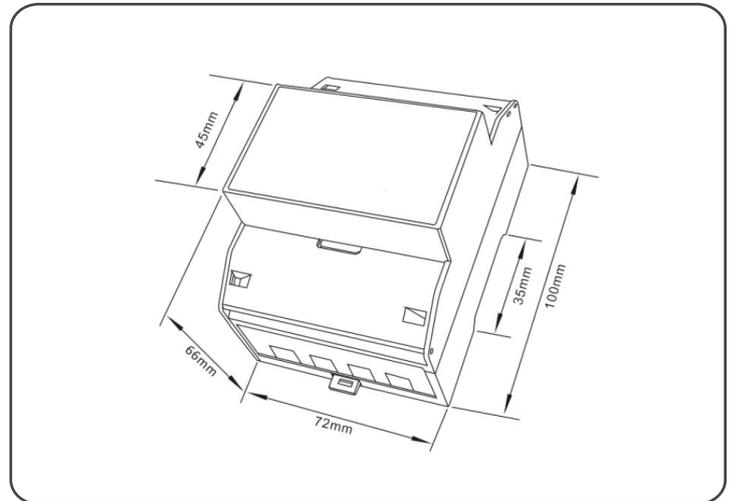
Rated Current	10A
Max Current	100A
Min Current	0.5A
Starting Current	40mA
TME104-Pulse	2 Pulse Output for imp/exp. energy
TME104-Modbus	2 Pulse Output + RS485 Modbus
TME104D-Mbus	2 Pulse Output + M-bus EN13757

## MODBUS COMMUNICATIONS

Interface Standard and Protocol	RS485 and MODBUS RTU
Communication Address	1-247
Transmission Mode	Half Duplex
Data Type	Floating Point
Transmission Distance	1000m Maximum
Transmission Speed	2400bps-38400bps
Parity	None (default). Odd, Even
Stop Bits	1 or 2
Response Time	<100 mS



## DIMENSIONS



## WIRING GUIDE

Terminals		
COMM/Pulse/2T	0.5~1.5mm <sup>2</sup>	0.4Nm
Load	4~25mm <sup>2</sup>	3Nm

## WIRING DIAGRAM

