



# DUAL LOAD MULTI-FUNCTION ENERGY METER

Model No: SMART-DME 300

- 2 Meters in 1
- Easy and Error free Connection
- 5A/33mV CT Input
- Multi-Parameter Measures
- 2 Pulse Output
- RS 485 Modbus RTS

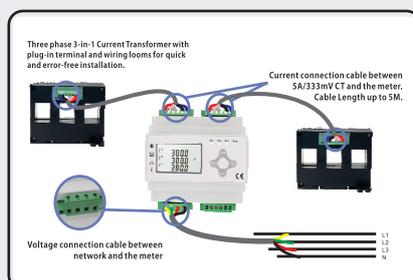


## INTRODUCTION

The Smart - DME 300 is a Dual Load Three Phase 4 wire multi-function energy meter for measuring energy consumption in split load applications such as power and lighting loads. The meter measures 2 three phase circuits separately and display the parameters including voltage, current, power, power factor, demand active energy reactive energy.

The meter connect with 3-in 1 CT via wiring looms for plug-in connection. It is a cost effective and space saving solution for all new power and lighting, or dual load, distribution and panel boards.

## DUAL LOAD SOLUTION



## SPECIFICATION

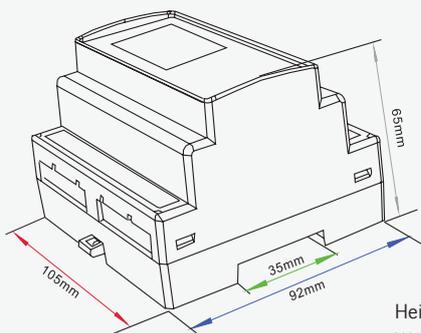
Nominal Voltage(Un)	3x230/400 V ac
Operational Voltage	80%~120% of Un
Instation Capabilities	
- AC Voltage withstand	4KV for 1 minute
- Impulse Voltage withstand	6KV-1.2μS
Basic Current (Ib)	5A or 333mV CT input
Maximum Rated Current (Imax)	0.4% Ib-Imax
Operational	20 Imax for 0.01s
Current Range	50 or 60Hz
Over Current withstand	≤ 2W/10VA
Pulse Output	Configurable
Display	LCD
Max Reading	9999999.9 kWh/kVarh

## PERFORMANCE CRITERIA

Operating Humidity	≤ 90%
Storage Humidity	≤ 95%
Operating Temperature	-25°C - +55°C
Storage Temperature	-40°C - +70°C
Reference Temperature	23°C± 2°C
International Standard	IEC 62053-21 / EN50470-1/3
Accuracy Class	Class1/Class B
Installation Category	CAT III
Mechanical Environment	M1
Degree of Pollution	E2
Protection Against Penetration of Dust and Water	2
Insulating Encased Meter of Protective Class	IP51 (indoor)
Electrostatic Discharges	II
Electromagnetic HF Fields	8kV contact / 15kV air gap
Electrical Fast Transients	IEC 61000-4-3
Surge	4kV
Radiated and Conducted	4kV
Emissions	EN 55022



## DIMENSIONS



Height 92mm  
Width 105mm  
Depth 65mm

## ACCURACY

Voltage, Current	0.5%
Frequency	0.2% of mid-frequency
Power Factor	1% of unity (0.01)
Active Power, Apparent Power	±1% of range maximum
Reactive Power	±1% of range maximum
Reactive Energy (Varh)	Class 2
Active Energy (Wh)	Class 1

## MODBUS

Bus Type	RS485(semi-duplex)
Protocol	Modbus RTU
Baud Rate	2400/4800/9600/19200/38400 bps
Address Range	1-247
Max. Bus Loading	64pcs
Communication Distance	1000M
Parity	EVEN/ODD/NONE
Data Bit	8
Stop Bit	1

## PULSE OUTPUT

Pulse Outputs	2
Pulse Output Type	Passive
Pulse Output 1	C1 Configurable
Pulse Width	C2 Configurable
Pulse Output 2	200/100(default)/60ms



## WIRING DIAGRAM

