

VDS11M

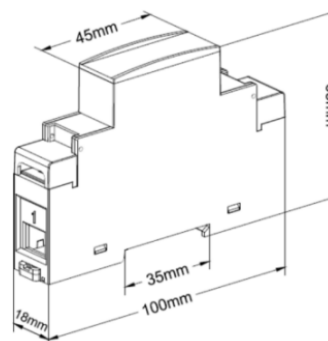
User Manual



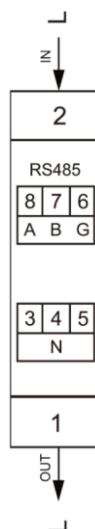
1. Specification

Meter Type	Single Phase
Fitting Type	DIN Rail
Max. Current (Amps)	100A
MID Approved	Yes
Input Type	Direct Connect
Tariffs	Single
Import / Export	Import & Export
Module Width	1
Reference Voltage	230VAC
Frequency	50/60Hz
Accuracy (Active Energy)	C (Cl. 0.5)
IP Rating	IP51 Front Display
Comm. Protocol	Modbus RTU over RS485
Range of Modbus Addresses	1 - 247
Baud Rate	1200, 2400, 4800, 9600, 19200
LCD Display	6 digit LCD backlit display
Key Programming	1 touch button

2. Dimensions

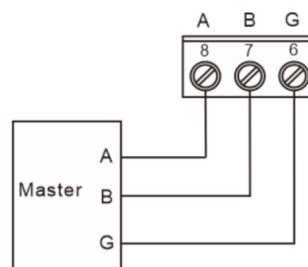


3. Wiring Diagrams

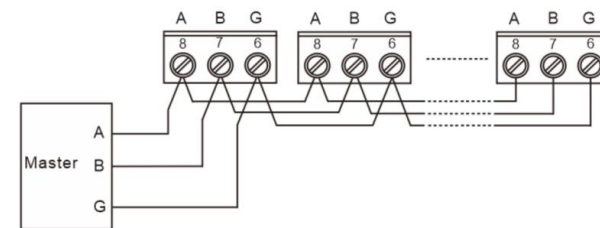


Max. Cable Size – Live Terminals 25mm² | Neutral Terminals 1.5mm²

N.B. Only one neutral connection is required

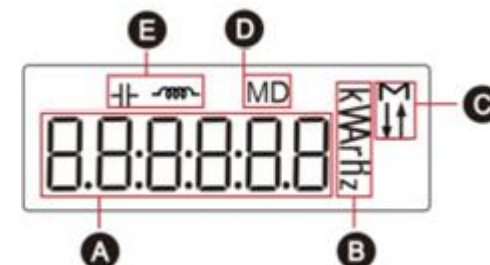


Single Meter Modbus Wiring



Multiple Meter Modbus Wiring

4. LCD Display



- A. Measured values.
- B. Unit of measurement.
- C. Σ indicates sum, $\downarrow$ indicates import and $\uparrow$ indicates export.
- D. Maximum demand icon.
- E. Display icon of the load feature (i.e. , inductive or , capacitive).

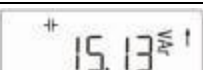
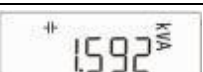
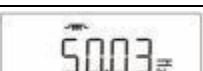
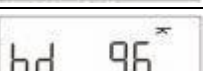
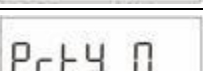
5. Button Control

Button	Quick Press	2 Sec. Press	5 Sec. Press
	Scroll through measured parameters or settings menu. Change values.	Move cursor between values in settings.	Enter settings menu. Confirm once settings changed.

6. Main Display Screen

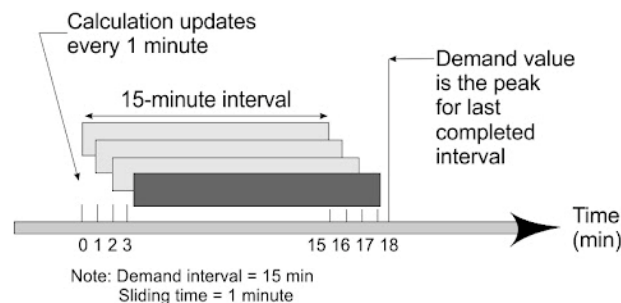
This is the default screen that is shown once the meter has been powered on. It displays measured parameters and communication settings. "Quick Press" the  button to scroll through the values.

LCD Display	Description
	Total Active Energy (Import + Export) Example: 738.59kWh

	Import Active Energy Example: 30.09kWh
	Export Active Energy Example: 708.50kWh
	Total Reactive Energy (Import + Export) Example: 2363.49kVARh
	Import Reactive Energy Example: 2300.26kVARh
	Export Reactive Energy Example: 63.23kVARh
	Voltage Example: 230.00V
	Current Example: 5.000A
	Active Power Example: 1.618kW
	Reactive Power Example: 15.13VAR
	Apparent Power Example: 1.592kVA
	Power Factor Example: 0.95
	Frequency Example: 50.03Hz
	Maximum Active Power Demand Example: 1.740kW
	Modbus Address Example: 1
	Baud Rate Example: 9600bps
	Parity Bit Example: None

	Stop Bit Example: 1
	Software Version Number Example: 0101.00

7. Demand Calculation Method

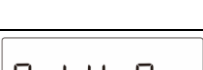


8. Set up

To enter the set up menu, “5 Sec. Press” the  button to enter the password screen, (default password is 0000). “2 Sec. Press” the  button to move cursor between values and “Quick Press” the  button to change them. “5 Sec. Press” the  button to confirm password.

“Quick Press” the  button to scroll through the settings. “5 Sec. Press” the  button to enter setting. “2 Sec. Press” the  button to move cursor between values and “Quick Press” the  button to change them. “5 Sec. Press” the  button when complete.

No button press for 10 seconds to exit or return to previous menu.

LCD Display	Description
	Modbus Address Default: 001 Options: From 1- 247
	Baud Rate Default: 19200 Options: 1200, 2400, 4800, 9600, 19200
	Parity Bit Default: n (None) Options: n, e (Even), o (Odd)

	Stop Bit Default: 1 Options: 1, 2
	Backlight Time Default: 60 minutes Options: On, Off, 5, 10, 30, 60, 120
	Auto Scroll Display Time Default: 0 seconds (Off) Options: 0-60
	User Password Default: 0000 Options: Four digit combination from 0-9.

9. Modbus Protocol

To view or download, please use the following QR code:

