



# S. P. Wales Ltd

## Electrical Metering Specialists



### Voltaris VDT41M - Summary Sheet

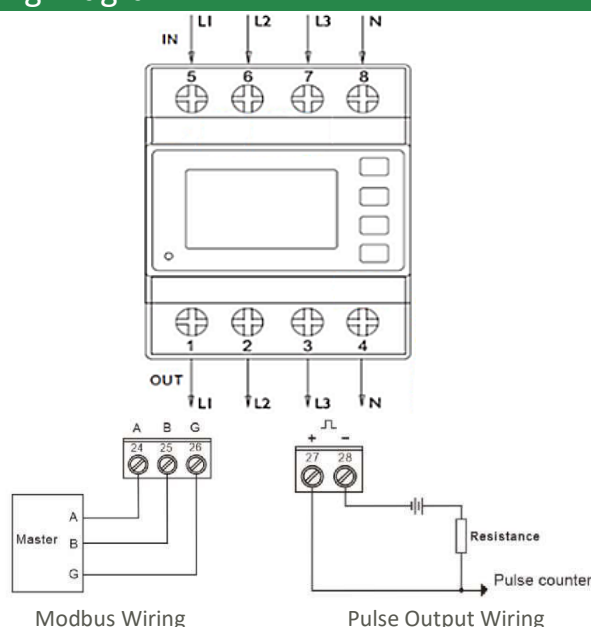
The VDT41M from Voltaris Metering is a three phase, 100A DIN Rail energy meter. This feature rich model can measure Imported & Exported Active Energy (kWh) and Reactive Energy (kVArh) as well as a host of other common parameters, including Current (I), Active Power (W), Frequency (Hz) and Voltage (V).

This highly accurate meter, (Class C ( $\pm 0.5\%$ )), is MID approved, making it suitable for billing applications. It features a back lit display for easy reading, and the four touch buttons can be used to scroll through parameters and to change settings. It offers a configurable pulse output as well as RS485 Modbus communication, making it suitable for integration into compatible dataloggers or building management systems.

#### Specification

|                     |                         |
|---------------------|-------------------------|
| Meter Type          | Three Phase             |
| Fitting Type        | DIN Rail                |
| Max. Current (Amps) | 100                     |
| MID Approved        | Yes                     |
| Smart               | No                      |
| Input Type          | Direct Connect          |
| Output Type         | Modbus / Pulse          |
| Tariffs             | Single                  |
| Import / Export     | Import & Export         |
| Accuracy Class      | Class C ( $\pm 0.5\%$ ) |
| Max. Cable Size     | 35mm <sup>2</sup>       |
| Module Width        | 4                       |
| Availability        | Next Day                |

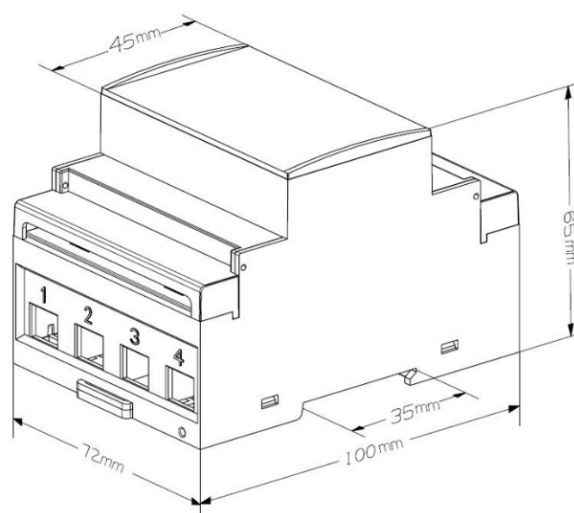
#### Wiring Diagram



#### Measured Parameters

|                           |   |                                   |   |
|---------------------------|---|-----------------------------------|---|
| Active Energy (kWh)       | ✓ | Line Power Factor (PF)            | ✓ |
| Active Power (W)          | ✓ | Line Reactive Power (kVAr)        | ✓ |
| Apparent Energy (kVAh)    | ✗ | Line to Line Voltage (V)          | ✓ |
| Apparent Power (VA)       | ✓ | Line to Neutral Voltage (V)       | ✓ |
| Average Current (I)       | ✗ | Maximum Current (I)               | ✓ |
| Average Power Demands (W) | ✗ | Maximum Power Demands (W)         | ✓ |
| Average Voltage (V)       | ✗ | Maximum Voltage (V)               | ✗ |
| Current (I)               | ✓ | Power Factor (PF)                 | ✓ |
| Current in Neutral (I)    | ✗ | Reactive Energy (kVArh)           | ✓ |
| Frequency (Hz)            | ✓ | Reactive Power (VAR)              | ✓ |
| Hours Run (hr)            | ✗ | Total Harmonic Distortion (Amps)  | ✓ |
| Line Active Power (W)     | ✓ | Total Harmonic Distortion (Volts) | ✓ |
| Line Apparent Power (kVA) | ✓ | Voltage (V)                       | ✓ |
| Line Current (I)          | ✓ |                                   |   |

#### Dimensions



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