



## ND Metering Solutions - MultiCube Modular - Master + Logger + Module- Summary Sheet

### Summary

The MultiCube Modular Metering system is designed for applications where multiple meters need to be installed. It's flexible design permits expansion up to 20 x 3 phase or 60 x single phase meters per Master or any combination of the two. Each module is 2 x three phase meter points or 6 x single phase meter points, or 1 x three phase meter point and 3 x single phase meter points. The MultiCube system requires a Master Module and up to 10 Measurement Modules, (each takes up to 6 CT inputs), and a communications module. This model includes a data logger that can store up to 1000 days profiling.

Communication modules are available as RS485 Modbus, Mbus and TCP/IP allows for the Master unit and all measurement modules to be read remotely from the device.

The ND Metering Solutions series of meters are the only range on the market that are manufactured in the UK and come with a 5-year warranty. The MultiCube Modular is a DIN Rail mounted electricity meter and power monitor. It is CT operated and has a programmable VT input. Note the standard build is for a Current Transformer with a 0.333V output.

This meter has a significant number of parameters that can be used to analyse a power system. It displays Import and Export Energy (kWh) to an accuracy better than class 1. In addition, Import and Export Reactive Energy (kVARh) are available along with Apparent Energy (kVAh) and Frequency (Hz).

Power (W), Apparent Power (kVA), Reactive Power (kVAR), Power Factor (pf), Current (I) and Live to Live and Live to Neutral Voltage (V) are available for individual phases and as a total.

Peak values, time averaged values and peak time averaged values are also available for Current (I) and Live to Neutral Voltage (V). Mean Demand and Peak Hold Mean Demand are available for kW and kVAR.

### Product Code

**Meter Type**  
**Fitting Type**  
**Max Current (Amps)**  
**MID Approved**  
**Smart**  
**Input Type**  
**Output Type**

**Tariffs**  
**Import / Export**  
**Availability**  
**Condition**  
**Brand**  
**Country of Manufacture**

**TPNCUBEMCML**

**Three Phase**  
**DIN Rail**  
**n/a**  
**No**  
**No**  
**Current Transformer (0.333V)**  
**Optional Comms**  
**Modules Available**  
**Single**  
**Import Only**  
**5 Day**  
**New**  
**ND Metering Solutions**  
**UK**

### 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)          | ✓ |                                   |   |



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