

Multicube Modular Meter

Save space, time and money



Features

- Modular design
- Din-rail mount
- 5 year warranty
- Modbus, Modbus TCP/IP, M-Bus

Benefits

- Up to 50% cost saving per meter point*
- Up to 80% reduction in cabling, connections and space*
- Future proofs expansion needs
- Minimises potential installation and commissioning errors

*Compared against 20 'Rail 350' standard 3phase 6 module wide din-rail mount meters

Multicube Modular Meter

The Multicube Modular Meter is a metering system designed for applications where multiple meters need to be installed. It provides a high density system with simplified wiring and advanced features. Its modular design allows for future expansion if required and its autorotation feature allows the meter to correct for any current transformers which may have been installed the wrong way around. If you are looking for a multiple metering solution which is space efficient, time efficient to install and setup, and future-proofs any installation for expansion then the Multicube is the solution.

One display and one communication port accesses and configures all Meter Modules. Meter System & Meter Channels can store Real-World Names e.g Outside Lighting.

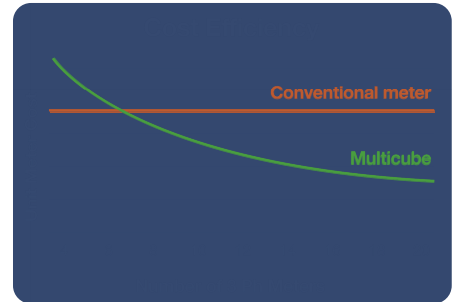
Multicube's flexible design permits configuration and expansion from 1 to 10 meter modules. Single Modbus request to [master] will return energies from ALL slaves, allowing extremely fast response times - ideal for real-time monitoring. DIN rail mount.

- Space Saving Design (20 meters in the space of 4 standard 96x96 or DIN Rail devices)
- From 2 to 20 three phase meters (any 3 phase module can be used as 3 single phase meters)
- Single Voltage Input - Vastly reduces installation time and costs
- Single Communications Port - Available as either MODBUS RTU, MODBUS TCP or M-Bus



Options

- Digital outputs - 12 way module for pulse output or alarm
- Multi-tariff - Maximum 8 tariffs
- Data logging - 1000 days profiling
- Import/export kWh
- Remote display
- MODBUS RTU, MODBUS TCP, M-Bus



Technical Specifications

Multi-Parameter Available via Display & MODBUS

Available via Display & MODBUS

| | All phases | Sum |
|-----------------------------|------------|-----|
| Volts, L-N & L-L | • | |
| Amps | • | |
| Power Factor | • | • |
| Import kWh | • | • |
| Import kvarh | • | • |
| Export kWh | | • |
| kVAh | | • |
| Inductive kvarh | | • |
| Peak Volts, L-N | • | |
| Peak Amps | • | |
| Neutral Amps | | • |
| kVA & kvar | • | • |
| kW, kVA & kvar Demand | | • |
| Peak kW, kVA, & kvar Demand | | • |
| Average Volt & Peak | • | |
| Amp Demand & Peak | • | |
| Frequency | | |

True rms measurement of Volts & Amps - and true Power Measurement - to the 30th harmonic at 50Hz (>25th@60Hz).

SAFETY

Conforms to EN 61010-1:2001 Overvoltage Category III, Pollution Degree 2 Accreditation UL, cUL, C-Tick, CB

INPUTS

| | |
|-------------------------------|--|
| System Voltage U Current I | 3 Phase 3 or 4 Wire Unbalanced Load 90-480V L-L / 50-277V L-N Nominal 0.333V from ND Externally Isolated Custom Current Sensors |
| Measurement Range | Voltage 40% to 120% of Nominal Current 0.2% to 120% Nominal CT Ratio |
| Frequency Range | Fundamental 45 to 65Hz Harmonics Up to 30th harmonic at 50Hz |

AUXILIARY SUPPLY

90-264Vac 50/60Hz at 15 VA max

ACCURACY

| | |
|-----------------|-----------------------------------|
| kWh | Class 1 per EN 62053-21 & BS 8431 |
| kvarh | Class 2 per EN 62053-23 & BS 8431 |
| kW & kVA | Class 0.25 IEC 60688 |
| kvar | Class 0.5 IEC 60688 |
| Amps & Volts | Class 0.1 IEC 60688 |
| PF | ±0.2° |
| Neutral Current | Class 0.5 IEC 60688 |

GENERAL

| | |
|-------------|--------------------------|
| Temperature | Operating -10°C to +55°C |
| Storage | -25°C to +70°C |
| Humidity | <75% non-condensing |
| Environment | IP54 standard |

MECHANICAL

| | |
|------------|--|
| Material | Black ABS with fire protection to UL94 |
| Dimensions | Master Display Unit: 164x100x96mm Communication Module width: 29mm Dual Metering Slave width: 29 mm (1.125") |
| Weight | Master: ~ 500 gms (1.1lbs) MODBUS Metering: ~ 150 gms (0.33lbs) |



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