Metering Solutions

LEADERS THROUGH INNOVATION

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Multicube Modular Meter

Save space, time and money

Features

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

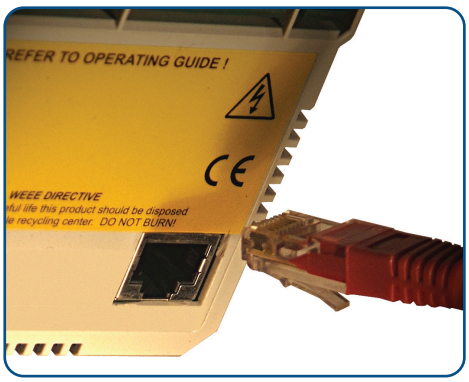
Benefits

- 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

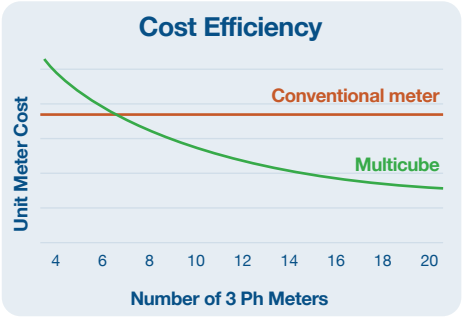
The Multicube Modular Meter is a metering system designed for applications where multiple meters need to be installed. It provides a high density system with simplified wiring and advanced features. It's modular design allows for future expansion if required and it's autorotation feature allows the meter 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	3 Phase 3 or 4 Wire Unbalanced Load	
Voltage U	90-480V L-L / 50-277V L-N	
Current I	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 Rating
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-V-O. Self extinguishing
Dimensions	Master Display Unit: 164x100x96mm (6.4"x3.9"x3.8") Communication Module width: 29mm (1.1") Dual Metering Slave width: 29 mm (1.1")
Weight	Master: ~ 500 gms (1.1lbs) MODBUS RTU ~ 175 gms (0.39lbs) Metering: ~ 150 gms (0.33lbs)

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ISO 9001 Registered Firm
ISO 14001 Registered Firm
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