



Features:

- Measures 3x 3 ϕ , 9x 1 ϕ circuits or any combination
- RJ12 to RJ12 CT connections
- Only 1 voltage & 1 comms connection to make per MultiCube
- Combine CT types on a MultiCube
- Wide range of mV CTs & Rogowski Ropes
- Auto CT rotation; Auto CT ratio recognition
- Crossed phase warning
- Demands & alarms
- Wide range auxiliary supply -100-240vac
- Single voltage input range - 100V-480V
- Class 0.5; CE, CB, UL, CUL, CTick; 5 year Warranty

Benefits:

- Lower cost per meter point on 950 & 650
- Reduced installation time by up to 50-75%
- Space saving 3 in 1 panel mount case - 650, 2 in 1
- Reduced installation errors
- Powerful feature rich options
- Flexible input options

Options:

- MultiCube 950mV - 3x 3 ϕ meters in 1
- MultiCube 650mV - 2x 3 ϕ meters in 1
- MultiCube 350mV - Standard 3 ϕ Meter
- MODBUS - instantaneous updates & 20 reads per second
- Correct installation check
- MODBUS+ 100mS reading updates
- M-Bus
- THD & Individual Harmonics to 63rd
- Virtual Residual or Summating Meter
- Class 0.2s

Multicube 950

The MultiCube 950mV is a powerful and extremely cost effective, 3in1 metering solution, designed to meet the requirements of both energy managers and electrical engineers. As well as measuring 3X the loads of a standard sub-meter, in any combination of 3ph/1ph, the MultiCube 950mV also packs in market leading innovations, with Accuracy Class 0.5 standard, and Class 0.2 optional. In addition to very competitive pricing per meter point is the reduced cost of just one voltage and comms connection per MultiCube.

Further savings come from the 'Plug & Play' RJ12 to RJ12 CT adaptor, included in the price, with just one to plug in for each 3ph load or set of 3 X1ph loads making installs even quicker. The MultiCube also features innovative, patented, Auto CT Recognition. This avoids errors from programming the CT primaries incorrectly by automatically recognising the CT's primary for you; plus Auto CT Rotation - to compensate for CTs installed the wrong way round; and Auto CT Accuracy Compensation - guaranteeing the accuracy of your data. This means that you will know the combined accuracy of the MultiCube 950mV and CTs because the MultiCube can compensate for the phase angle of our CTs giving you peace of mind that your data will not contain any hidden inaccuracies. Further safeguards against error are provided by the RJ12 plugs that cannot be installed the wrong way round. This just leaves the possibility of installing the CTs on the wrong phases, and for this the MultiCube950mV provides a warning on its large, backlit display so that costly returns to site can be avoided.

To provide the ultimate in flexibility for installation, our comprehensive range of mV CTs and Rogowski Rope CTs can be used in any combination required, on the same MultiCube 950mV, across each 3ph load or group of 1ph loads. We have also included a MODBUS test facility to test the MODBUS wiring.

The MultiCube950mV is a highly accurate, 3 in 1 energy management sub-meter that provides a powerful platform to analyse power quality with options of THD and Individual Harmonics to the 63rd, and an optional Virtual Summating or Residual Meter. The Virtual Meter provides a full set of power and energy measurements (apart from power quality) and can be configured, by the user, to provide the SUM of measured loads, thus saving the cost of an additional incomer meter; or can be configured to detect the incoming power, and subtract the other measured sub-loads, to provide a Residual Meter point for the total of all those insignificant loads which normally go unmeasured.





Parameters on Display, MODBUS & TCP/IP *Parameters over MODBUS & TCP/IP only

Parameters:	All Phases	Sum
Volts, L-N & L-L; Amps; Peak Volts, L-N; Peak Amps; Average Volt&Peak; Amp Demand & Peak, *(Option) % THD Volts & Amps Individual harmonics 2nd to 63rd	X	
Powerfactor; kW, kVa&kvar; Import and Export kWh, kVAh, kVAh; kW; kVA; & kvar Demand; Peak kW; kVA; & kvar Demand	X	X

Inputs + measurements

System	3ø 3 or 4 Wire Unbalanced Load or 1ø
Voltage U:	480/277V Line-Line
Current I:	0.333V from auto-setting CTs
Measurement range:	Voltage 20% to 120% Current 0.2% to 120%
Frequency range:	Fundamental 45 to 65 Hz
Harmonics:	80th harmonic at 50Hz
Auxiliary Supply	Standard 100-240V 45 - 65Hz at 4W max

Accuracy

kWh	Class 0.5 -per EN 62053-22 (Class 0.2 option)
kVarh	Class 1 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° (0.05In - 1.2In and 0.2Un - 1.2Un)
Neutral current	Class 0.5 IEC 6068

Pulse output

Function	1 pulse per unit of energy or Event alarm
Scaling	Configurable and ON-Time
Isolation	3.5kV 50Hz 1 minute
Type	N/O volt free contact. Optically isolated
Contacts	100mA ac/dc max; 70Vdc/33Vac max; 5W maximum load

General + Mechanical

Enclosure	DIN 43700 96x96
Materials	Mablex with fire protection to UL94-V-O. Self extinguishing
Weight + Dim.	~ 250 gms (0.55lbs) ; 96x96x83.5mm (3.8"x3.8"x3.3")
Temperature	Operating -10°C to +55°C
Storage	-25°C to +70°C
Humidity	<75% non-condensing
Environment	IP54 standard

Communication options:

- Modbus RTU
- Mbus
- Ethernet
- Bacnet

Safety:

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

