



Easy to See

Clear backlit LCD Display with a very wide viewing angle

Easy to Use

Four keys select all parameters

Right First Time Installation

Pulse Test Facility & per-phase values to ensure correct installation

Small in size yet great in performance

Only 71mm behind the panel.

Measures every single cycle up to the 30th harmonic

One Meter — multiple models

- Volt, Amp, kW & PF indicator
- kWh Meter
- Power Quality Analysis

The MultiCube — Makes Life Easy

For the Consultant

Simplifies specification. The *MultiCube* covers over 99% of all LV panel requirements. Also available for HV & 60Hz.

For the Engineer

Simplifies panel design. The *MultiCube* combines all measurement functions and switches into a single attractive unit.

For the Buyer

Saves Time and Money. The *MultiCube* offers a single source of competitive instruments for all measurement and metering requirements, plus a full range of complementary products.

For the Commissioning Engineer

Simplifies Test. Pulse Test Facility generates pulse outputs even at zero load.

Simplifies commissioning. The *MultiCube* can be tested at minimal loads – full 4 digit resolution of single phase values, 5 digit resolution of 3 ϕ values and 8 digit energy registers.

For the End-User

Offers a high confidence level. Performance and accuracy is fully specified –no if's, but's or maybe's.

Offers maximum usability. The *MultiCube*, with it's custom backlit LCD display, is fully visible under all conditions and from all angles. Clear display legends ensure unambiguous readings with no multipliers required.

For System Expansion and SCADA

High speed internal RS485 MODBUS[®] communications allow all readings to be read remotely.

Fully Programmable

Voltages to 440kV, Currents to 25kA, Pulse Lengths to 20 sec, Amp Demand from 10 sec to 40 min & Power Demands from 1-60 min.

MultiCube Models & Parameters

MultiCube Model	1	2	3	4	6
Phase Amps	0	0	0	0	0
Peak Amps				0	0
Ampere Demand	0	0	0	0	0
Peak Amp Demand	0	0	0	0	0
% THD Amps					0
Harmonics to 15 th					0
Phase Volts	0	0	0	0	0
Peak Phase Volts				0	0
Line Volts	0	0	0	0	0
Time Averaged Volts	0	0	0	0	0
Peak Time Av'd Volt	0	0	0	0	0
% THD Volts					0
Harmonics to 15 th					0
per phase PF	0	0	0	0	0
per phase kW	0	0	0	0	0
per phase kvar			0	0	0
per phase kVA				0	0
3j PF	0	0	0	0	0
3j kW	0	0	0	0	0
3j kvar			0	0	0
3j kVA				0	0
Frequency	0	0	0	0	0
Import kWh		0	0	0	0
Export kWh					0
kVAh				0	0
Capacitive kvarh			0	0	0
Inductive kvarh			0	0	0
Import kvarh			0	0	0
Export kvarh					0
Hours Run					0
kW Demand			0	0	0
Peak kW Demand			0	0	0
kVA Demand			0	0	0
Peak kVA Demand			0	0	0
kvar Demand			0	0	0
Peak kvar Demand			0	0	0
Neutral Current				0	0
kWh Pulse (Import)		0	0	0	0
Import kvarh Pulse			0	0	0
kVAh Pulse				0	0

Notes: 0 Fitted O Optional

MultiCube Options

MODBUS[®] Communications

RS485 MODBUS RTU[®] Communications available (factory-fitted).

Alternative Voltage Configurations

MultiCubes can be supplied for virtually all 3 ϕ voltage systems. Standard manufacture is for 230/400 Volt, but alternatives include 63/110 V, 120/240 V, 120/208 V, 277/480 V, etc.

Voltage Expander

The *Voltage Expander* is a small passive module that extends the voltage measurement range of the *MultiCube* up to a maximum of 750 Volt Line/line. Mounting on the existing voltage terminals, it provides a new set of terminals for the high voltage connection.

Brief Specification

Inputs	
System	3 ϕ 3 or 4 wire unbalanced
Voltage	230 / 400 Volt standard
Optional	63/110, 120/208, 120/240 or 277/480 V, All 20% to 120%
Current	5 Amp from external CTs
Optional	1 Amp
	Fully isolated (2.5kV)
Range	0.5% to 120%
Frequency	45 Hz to 65 Hz
Harmonics	up to 30 th harmonic
Loading	Volts < 0.1VA per phase
	Amps < 0.1VA per phase
Overload	Volts X4 for 1 hour max
	Amps x40 for 1/2 second max

Accuracy	phase	3j
Current	$\pm 0.2\%$ FS	N/A
5% to 120% FS	$\pm 1\%$ R	
Voltage LN	$\pm 0.2\%$ FS	N/A
20% to 120% FS	$\pm 1\%$ R	
Voltage LL	$\pm 0.3\%$ FS	N/A
20% to 120% FS	$\pm 1\%$ R	
Watts	$\pm 0.4\%$ FS	$\pm 0.6\%$ FS
5% to 120% FS	$\pm 1\%$ R	$\pm 1\%$ R
VA	$\pm 0.6\%$ FS	$\pm 1\%$ FS
5% to 120% FS	$\pm 1.5\%$ R	$\pm 1.5\%$ R
var	$\pm 0.8\%$ FS	$\pm 1.5\%$ FS
5% to 120% FS	$\pm 2\%$ R	$\pm 2\%$ R
PF	-0.1 to 1 to 0.1	$\pm 0.2^\circ$
Freq.	45 - 90Hz	$\pm 0.05\text{Hz}$

Accuracy	3j
Neutral Current	$\pm 0.6\%$ FS
5% to 120% FS	$\pm 2\%$ R
Wh Register	Class 1 EN 61036
VAh Register	Class 2
varh Register	Class 2 IEC 1268
All accuracies specified ± 1 digit	
Auxiliary Supply	
Meter	
	Standard 230 V ac $\pm 15\%$ @ 5VA max
	Optional 115 V ac. 48V dc

E & O E Specifications subject to change