

MultiCube

DIN 96x96mm Power Meter



- **One Meter Measures ALL your values**
Economically replaces Ammeters, Voltmeters, Switches, PF & kW Indicators, kWh Meters etc.
- **Easy to See**
Clear Backlit LCD Display with a Very Wide Viewing Angle
- **Easy to Use**
Four Keys select All Parameters
- **Safe to Use**
Fully Isolated Current Inputs for Complete User & Installation Safety—Complies with Low Voltage Directive (LVD)
- **Small in Size yet great in Performance**
Needs Only 71mm (2.80") behind the panel—Measures every single cycle up to the 20th Harmonics
- **Simple to Install**
Software Detection/Correction of Wiring Error

MultiCubes Provides Something for Everybody

For the Consultant

Simplify Specification. **MultiCubes** will cover 99% of all panel requirements.

For the Engineer

Provides Peace of Mind. **MultiCubes** use the latest technology—offering accurate high speed continuous measurement irrespective of harmonics and waveform interruptions.

For the Buyer

Save Time and Money. **MultiCubes** provide a single source of competitively priced instruments for all measurement and metering requirements and are complemented by a full range of associated products.

For the Installer

Speed Installation. **MultiCubes** have large rising cage terminals, accepting cables up to 4mm Sq. and simple panel mount clips.

For the Commissioning Engineer

Tolerant of wiring errors. **MultiCubes** feature “auto-Commissioning”, thus ensuring that a reverse CT connection will not cause reading errors. Per phase kW and PF measurement allows a cross-phase connection error to be quickly and easily detected. Simplify installation checking. **MultiCubes** can be tested at minimal loads—made possible by the full 4 digit resolution of single phase values, and 5 digit resolution of 3 phase values.

For the End-User

Offer a high confidence level. **MultiCubes'** performance and accuracy is fully specified—on and, ifs, buts or maybes.

Offer maximum usability. **MultiCubes** with a custom backlit LCD display are fully visible under all conditions an from all angles. Clear display legends ensure unambiguous readings with no multipliers required.

Brief Specification

Inputs

System	3Ø 3 or 4 wire unbalanced load
Voltage	230/240V, 480/277V, 208/120V Standard 110/63V Optional
Measurement Range	20% to 120%
Current	5A from external CT's 1A optional Fully Isolated
Measurement Range	0.5% to 120%
Operating Frequency	45 to 65Hz
Harmonics	Up to 20th harmonics
Input Loading Voltage	Less than 0.1VA per phase
Input Loading Current	Less than 0.1VA per phase
Overload Voltage	x2 for 2 seconds max.
Overload Current	x40 for 1 second max.

Auxiliary Supply

Standard	110VAC ±15% 45-65Hz
Optional	230VAC ±15% 45-65Hz

General

Display	Custom backlit supertwist LCD 3 lines of 12mm (0.47”) digits plus 3.8mm (0.15”) legends
Environmental	
Temperature	-10°C to +65°C (14°F to 149°F) Operating
Humidity	<75% RH non-condensing
Programming	
CT Primary	5A to 5.000A
PT Primary	60V to 60.000V
Pulse Outputs 2	
Function	#1 Wh (types 2,3 & 4 only) #2 Total varh (types 3 & 4 only)
Pulse Length	100ms
Isolation	2.500V (50V #1 to #2)
Scaling	User programmable

Accuracy

	per phase	3Ø
Current	±0.2% FS	N/A
5% to 120% FS	±1% Reading	
Voltage L-N	±0.2% FS	N/A
20% to 120% FS	±1% Reading	
Voltage L-L	±0.3% FS	N/A
20% to 120% FS	±1% Reading	
Watts	±0.4% FS	±0.6% FS
5% to 120% FS	±1% Reading	±1% Reading
VA	±0.6% FS	±1% FS
5% to 120% FS	±1.5% Reading	±1.5% Reading
var	±0.8% FS	±1.5% FS
5% to 120%	±2% Reading	±2% Reading
PF	±0.2°	±0.2°
Frequency		±0.05Hz
Neutral Current	N/A	±0.6% FS
5% to 120%		±2% Reading
Wh Register	N/A	Class 1 EN 61036
VAh Register	N/A	Class 2
varh Register	N/A	Class 2 IEC 1268

NOTE: All accuracies specified are ±1 digit

MultiCube Models & Parameters

	MultiCube 1	MultiCube 2	MultiCube 3	MultiCube 4
Phase Amps	✓	✓	✓	✓
Phase Volts	✓	✓	✓	✓
Line Volts	✓	✓	✓	✓
Per phase PF	✓	✓	✓	✓
Per phase kW	✓	✓	✓	✓
Per phase kvar			✓	✓
Per phase kVA				✓
3Ø PF	✓	✓	✓	✓
3Ø kW	✓	✓	✓	✓
3Ø kvar			✓	✓
3Ø kVA				✓
Frequency	✓	✓	✓	✓
Import kWh		✓	✓	✓
Capacitive kvarh			✓	✓
Inductive kvarh			✓	✓
Total kvarh			✓	✓
Import kVAh			✓	✓
kW Demand			✓	✓
Peak Amps				✓
Peak Phase Volts				✓
Neutral Current				✓

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