



MultiCube Meters Types 1-4

An improved version of the MultiCube Meter was launched in 2007. This is part of the on-going process of product improvement. Changes are detailed below:

Original MultiCube		MultiCube 2007	
Models			
Types 1 - 4		Available with some enhancements – see below	
Type 5		Discontinued	
Type 6		Available with some enhancements	
Enclosure		Unchanged	
Terminal Connections		Unchanged	
Front Panel	Raised keys	Flat Keys <i>Can be supplied with raised keys, causing loss of the Pulse Indication LEDs</i>	
LEDs	1 x Option Unit Fitted	2 x Pulse Indication 1 x Valid MODBUS Command	
Internal MODBUS Comms	Available to order	Available Some minor register changes	
Comms Option Module	Available to Order	Under consideration	
4-20 mA Option Module	Available to Order	Not Available Consult Sales for Original Model	
Power-up Sequence	Cube Soft 106 - 3	Cube t - x Soft - 1.09	x = 1, 2, 3 or 4
Measurement System	2 quadrant with auto-rotation to correct for reverse connected CTs	Full 4 quadrant measurement. No Auto-rotation fitted	
	10 bit A-D conversion	12-bit A-D conversion	
Display Pages			
Capacitive var	Minus sign used	Capacitor Symbol used	
Export var	Not indicated	Indicated as -ve	
Power Factor	Named PF	Named Cos <i>j</i>	
Capacitive PF	Minus sign used	Capacitor Symbol used	
MD	Named MD	Named T-Avg	
kVA MD (Type 3 & 4)	Not available	Standard	
kvar MD (Type 3 & 4)	Not available	Standard	
Energies (kWh, kVAh & kvarh)	7 digits on 2 lines	8 digits on 1 line	
kvarh	Capacitive Inductive Total (ignoring signs)	Capacitive Inductive Total Import	
Scrolling Pages	Fitted (Not Type 6)	Fitted (Not Type 6)	
Hours Run	Not Available	Available on Type 6 to order Programmable kW threshold	



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Programming		
CT & Primary Voltage	Increment in 10s	Fast selection from industry standard list with fine-adjust facility
Maximum PT	50,000 Volts Line/Line	440,000 Volts Line/Line
Pulse Rate	Adjustable individually for each pulse output (Types 3 & 4)	Adjustable globally for both outputs.
Pulse Length	Fixed at 100ms	Adjustable from a table from 100ms to 5 sec.
Pulse Test Facility	Not available	Fitted. Allows pulses outputs to be tested & verified at no-load
MODBUS Tables		
Meter Model (Address 3590)	100	Firmware V 1.09 400 Firmware V1.10 & later 100
Amalgamated Data Table	Not Available	Key values in a single table for fast data access
Custom Data Table	Not Available	32 user selectable registers for fast download
Harmonic Data Table	Not Available	MultiCube 6 only Individual harmonics (2 nd to 15 th) for the 3 currents & the 3 phase voltages.
Security Features	Not available	Pass-code available to lock out front-panel programming.