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The MODBUS[®] Communications Options Module for the **MultiCube** adds multi-drop serial communications to any standard **MultiCube** meter. The device uses a high speed microprocessor to extract information from the meter and interface to an industry standard MODBUS[®] system.

Use of a dedicated communications processor ensures optimum efficiency, allowing fast access to data on systems with multiple meters. At 19,200 baud, it is possible to access and download the main instantaneous data tables (24 values) from typically 20 **MultiCube** Meters in one second.

MultiCube Options

MODBUS[®]

Communication

The use of MODBUS[®] protocol ensures compatibility with existing systems and/or many readily available software packages.

The Options Module may be configured as RS485 or RS422 providing 2 or 4 wire communications over distances up to 1200 metres. Data rates of 4800, 9600 or 19200 may be selected to suit system requirements.

The Communications Option Module will be available in 2 formats:

- **Standard** Only parameters displayed on the **MultiCube** Meter can be accessed via MODBUS[®].
- **All Value** The full set of **MultiCube** Type 4 parameters can be accessed via MODBUS[®] from any **MultiCube**.

Specification

Auxiliary Supply

Option Module	230vac or 115vac 50/60Hz ±15% Automatic voltage selection when inserted into MultiCube MultiCube MUST be rated to match either selection.
Load	3 VA Maximum
Isolation	2.5 kV continuous (internally wired to MultiCube Auxiliary mains inputs)

MODBUS[®] Serial Comms

Bus Type	RS422 / RS485 4/2 Wires + 0V. Half Duplex
RX Loading TX Drive	1/4 Unit Load / Options Module 32 Unit Loads
Protocol	MODBUS [®] RTU with 16 bit CRC. (JBUS compatible)
Baud Rate	4800, 9600 or 19200 user programmable
Address	User Programmable 1-247
Speed Max Data Packet	Any complete Table (Energy, Instantaneous, set-up etc)
Command Rate	New command within 5ms of previous one

Mechanical (Options Module)

Enclosure	Custom Options Enclosure. Material Mablex UL94-V-0
Dimensions Options Unit Unfitted MultiCube + Options	W=87mm x H=59mm x L=75mm W=96mm x H=96mm x L=138mm (130mm behind panel)
Weight	Approx. 200g
Terminals	Rising Cage. Cable (max) 1.5mm ² Solid, 1.0mm ² Stranded