

Protocol Converter: Modbus to M-Bus

HD67029M Serie - Available in 5 versions for Modbus RS232: 20-40-80-160-250 slaves
and Available in 5 versions for Modbus RS485: 20-40-80-160-250 slaves

Protocol Converter HD67029M Serie:

Produced by ADFweb.com, is used like language converter from Modbus Protocol to M-Bus and vice-versa, for read M-Bus instruments (Slave) from a Master Modbus.

Modbus:

Is the protocol most frequently used in the industrial and civil automation for the communication with several devices connected in the same net. Defines the format and the communication mode between a Master, that control the system, and one or more slaves that answer to the master queries.

This can be, for example, a system for measuring temperature, humidity, pressure, hot and/or cold water, etc. ... and allows communication with PC/PLC.

There are two types of Modbus, divided into the serial RTU and ASCII, and the one on Ethernet, the Modbus TCP.

M-Bus:

Is a specific protocol used for the reading of Energy, hot and cold water, gas, pressure, etc. ... of counters and totalizers.

Usually the M-Bus uses a specific physical connection (Physical Layer), but in some cases it uses a RS232 or RS485 [see HD67055].

Modbus to M-Bus HD67029M

The products of HD67029M series are protocol converter between Modbus and M-Bus. The Modbus connection is through RS232 or RS485.

The converter is Slave at Modbus side and Master at M-Bus side.

The M-Bus Master allow to connect and to feed up to 250 slaves for length of 350m.

For longer lengths, or with more than 250 slaves, the use of repeaters field [HD67032M series] is suggested.

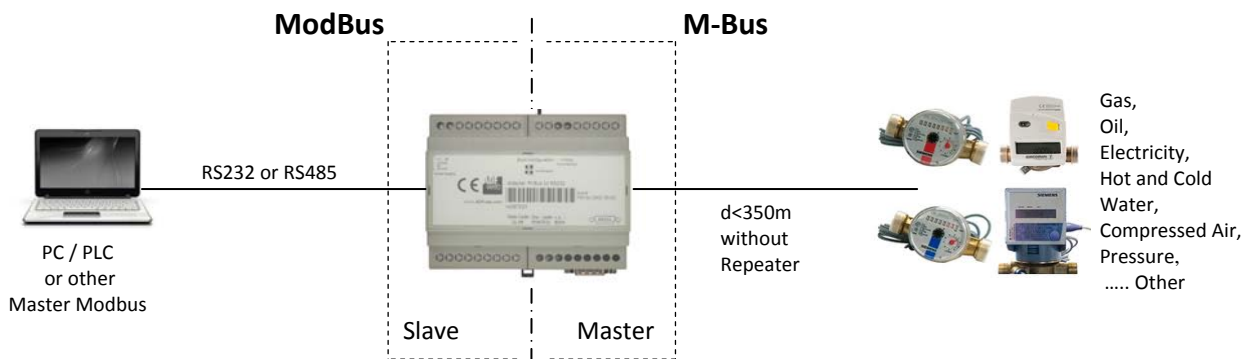
- European standard EN 1434
- Microprocessor control
- Scalable da 1 a 250 slaves
- Galvanic isolation between Modbus and M-Bus
- 35 mm DIN rail mounting
- Settable transmission speed from 300 to 38400 baud
- AC/DC Power supply

Other Solution Protocol Converter Modbus / M-Bus:

Several solutions implemented to cover all the cases presented by the market:

- M-Bus / Modbus, for read Modbus instruments [slave] from a Master M-Bus [see HD67059M];
- Modbus / M-Bus, for read M-Bus instruments [slave] from a Master Modbus but with the Slaves M-Bus on RS232 or RS485 [see HD67055];
- Modbus / M-Bus, MultiMaster M-Bus allows to read M-Bus Slaves simultaneously from a Master M-Bus and from a Master Modbus [see HD67063].

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PRICE



Order Code	HD67029M-20	HD67029M-40	HD67029M-80	HD67029M-160	HD67029M-250
Technical data:	20 slaves	40 slaves	80 slaves	160 slaves	250 slaves
Operating voltage:	18V .. 35V DC 15V .. 21V AC	18V .. 35V DC 15V .. 21V AC	18V .. 35V DC 15V .. 21V AC	18V .. 35V DC 15V .. 21V AC	18V .. 35V DC 15V .. 21V AC
Consumption single slave:	1,5 mA	1,5 mA	1,5 mA	1,5 mA	1,5 mA
Min / Max-load consumption:	3,5W / 4W	3,5W / 5W	3,5W / 8W	3,5W / 14W	3,5W / 30 W
M-Bus voltage (without load):	34V	38V	38V	38V	38V
Max. M-Bus quiescent current:	30mA (20 unit loads)	60mA (40 unit loads)	120mA (80 unit loads)	240mA (160 unit loads)	375mA (250 unit loads)
Overcurrent threshold:	250mA	250mA	250mA	500mA	500mA
Transmission speed RS232/RS485:	1200 .. 115.200 baud	1200 .. 115.200 baud	1200 .. 115.200 baud	1200 .. 115.200 baud	1200 .. 115.200 baud
Transmission speed M-Bus:	300 .. 38.400 baud	300 .. 38.400 baud	300 .. 38.400 baud	300 .. 38.400 baud	300 .. 38.400 baud
Galvanic Isolation to M-Bus	yes	yes	yes	yes	yes
Temperature range °C / °F:	-40/+70°C[-40/+158°F]	-40/+70°C[-40/+158°F]	-40/+70°C[-40/+158°F]	-40/+70°C[-40/+158°F]	-40/+70°C[-40/+158°F]
Dimensions DxWxH	106x60x95 mm	106x60x95 mm	106x60x95 mm	106x63x95 mm	106x75x95 mm



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QR—quick response
(matrix code)
info Modbus to M-Bus
HD67029M serie

