Protocol Converter: Modbus to Multi Master M-Bus

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

**Protocol Converter HD67063 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].

**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 HD67029M].

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**Modbus to M-Bus HD67063**
The products of HD67063 serie are special protocol converter between Modbus and M-Bus. Unlike the HD67029M serie, these devices can be Multi-Master, i.e. it is possible to install the device in a existing net composed of a Master and several Slaves M-Bus. With this type of connection is ensured the normal functioning of the system but is added the possibility of saving on Modbus registers the informations of the Slaves M-Bus; and so keep these values available to a Master Modbus. This in the case is need to monitoring in another way the M-Bus informations .
This device is the union between a Repeater [HD67032M serie] and a Modbus to M-Bus Protocol Converter [HD67029M serie].
The M-Bus Master allow to connect and to feed up to 250 slaves for leght 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

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**Order Code**

**Technical data:**

<table>
<thead>
<tr>
<th>Operating voltage:</th>
<th>HD67063-20 20 slaves</th>
<th>HD67063-40 40 slaves</th>
<th>HD67063-80 80 slaves</th>
<th>HD67063-160 160 slaves</th>
<th>HD67063-250 250 slaves</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>18V .. 35V DC</td>
<td>18V .. 35V DC</td>
<td>18V .. 35V DC</td>
<td>18V .. 35V DC</td>
<td>18V .. 35V DC</td>
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<tr>
<td></td>
<td>15V .. 21V AC</td>
<td>15V .. 21V AC</td>
<td>15V .. 21V AC</td>
<td>15V .. 21V AC</td>
<td>15V .. 21V AC</td>
</tr>
<tr>
<td>Min / Max-load consumption:</td>
<td>1.5 mA</td>
<td>1.5 mA</td>
<td>1.5 mA</td>
<td>1.5 mA</td>
<td>1.5 mA</td>
</tr>
<tr>
<td>M-Bus voltage (without load):</td>
<td>3.5W / 4W</td>
<td>3.5W / 5W</td>
<td>3.5W / 8W</td>
<td>3.5W / 14W</td>
<td>3.5W / 30 W</td>
</tr>
<tr>
<td>Max. M-Bus quiescent current:</td>
<td>38V</td>
<td>38V</td>
<td>38V</td>
<td>38V</td>
<td>38V</td>
</tr>
<tr>
<td>Overcurrent threshold:</td>
<td>250mA</td>
<td>250mA</td>
<td>250mA</td>
<td>250mA</td>
<td>250mA</td>
</tr>
<tr>
<td>Transmission speed RS232/RS485:</td>
<td>1200 .. 11.5.200 baud</td>
<td>1200 .. 11.5.200 baud</td>
<td>1200 .. 11.5.200 baud</td>
<td>1200 .. 11.5.200 baud</td>
<td>1200 .. 11.5.200 baud</td>
</tr>
<tr>
<td>Galvanic Isolation to M-Bus:</td>
<td>120mA (80 unit loads)</td>
<td>120mA (80 unit loads)</td>
<td>120mA (80 unit loads)</td>
<td>120mA (80 unit loads)</td>
<td>120mA (80 unit loads)</td>
</tr>
<tr>
<td>Temperature range °C / °F:</td>
<td>300 .. 38.400 baud</td>
<td>300 .. 38.400 baud</td>
<td>300 .. 38.400 baud</td>
<td>300 .. 38.400 baud</td>
<td>300 .. 38.400 baud</td>
</tr>
<tr>
<td>Dimensions D x W x H:</td>
<td>106x60x95 mm</td>
<td>106x60x95 mm</td>
<td>106x60x95 mm</td>
<td>106x63x95 mm</td>
<td>106x75x95 mm</td>
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