**Level Converter: **M-Bus to RS232

**HD67021M Serie - Available in 5 versions: 20-40-80-160-250 slaves**

The M-Bus (or Meter-Bus) is a bus optimized for the reading of measurement instruments like: energy counters, hot and cold water counters, gas, pressure, sensors and actuators, etc. A M-Bus system is composed of a Master that acquire data from the counters (Slaves-M-Bus) that are connected to the Master through a two wire bus or by wireless.

The number of Slaves connected to the bus can change from 1 to 250 (for the maximum length of 350m); for greater distance repeaters are used [HD67032M serie].

More and more manufacturer implement the M-Bus interface in their counters, making it the ideal support for the pricing of consumption at distance (GSM/internet/phone line...) of local or distributed heating systems (civil and industrial).

The M-Bus is comply to the standard defined by the EN 1434 normative.

- ADFweb.com offers some alternative Level Converter products with the use of RS485, Modem, Internet/Ethernet, USB and Bluetooth.

**M-Bus Master / RS232**

The products of HD67021M serie are level converters that allows the communication between a PC/PLC and the Slaves M-bus. The serial used for the connection with the PC/PLC is a RS232, and is available in two versions of connector (A: Screw terminal; B: DB9M).

The HD67021M allows to develop the own software for register and process the data (for example for the charging users); or use the existing programs.

The M-Bus is able to powering from up to 250 slaves. The microprocessor control guarantees a stable communication with the slaves M-Bus.

Other versions allows to read the Slaves M-Bus through Internet/Ethernet solutions [HD67030-B2 serie].

- European standard EN 1434
- Microprocessor control
- Scalable from 1 to 250 slaves
- Galvanic isolation between RS232 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>Order Code</th>
<th>Technical data:</th>
</tr>
</thead>
<tbody>
<tr>
<td>HD67021M-20</td>
<td>20 slaves</td>
</tr>
<tr>
<td>HD67021M-40</td>
<td>40 slaves</td>
</tr>
<tr>
<td>HD67021M-80</td>
<td>80 slaves</td>
</tr>
<tr>
<td>HD67021M-160</td>
<td>160 slaves</td>
</tr>
<tr>
<td>HD67021M-250</td>
<td>250 slaves</td>
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</tbody>
</table>

- Operating voltage:
  - 18V to 35V DC
  - 15V to 21V AC
  - 1.5 mA
  - 3.5W / 4W
  - 34V
- Consumption single slave:
  - 30mA (20 unit loads)
  - 250mA
  - 300 .. 115,200 baud
  - yes
  - -40/+70°C [-40/+158°F]
  - 106x60x95 mm
- Max. M-Bus quiescent current:
  - 250mA
  - 300 .. 115,200 baud
  - 300 .. 38,400 baud
  - yes
  - -40/+70°C [-40/+158°F]
  - 106x60x95 mm
- Overcurrent threshold:
  - 120mA (80 unit loads)
  - 250mA
  - 300 .. 115,200 baud
  - yes
  - -40/+70°C [-40/+158°F]
  - 106x60x95 mm
- Transmission speed RS232:
  - 38V
  - 300 .. 115,200 baud
  - yes
  - -40/+70°C [-40/+158°F]
  - 106x60x95 mm
- Galvanic Isolation to M-Bus:
  - 375mA (250 unit loads)
  - 350mA
  - 300 .. 115,200 baud
  - yes
  - -40/+70°C [-40/+158°F]
  - 106x60x95 mm
- Temperature range °C [°F]:
  - 106x60x95 mm
- Dimensions DxDxH:
  - 106x60x95 mm

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**Price**

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QR — quick response
(matrix code)