

# Level Converter: M-Bus to Modem

**HD67023-B2 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 [serie **HD67032M**].

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 RS232, RS485, Internet/Ethernet, USB and Bluetooth.

## M-Bus Master / Modem

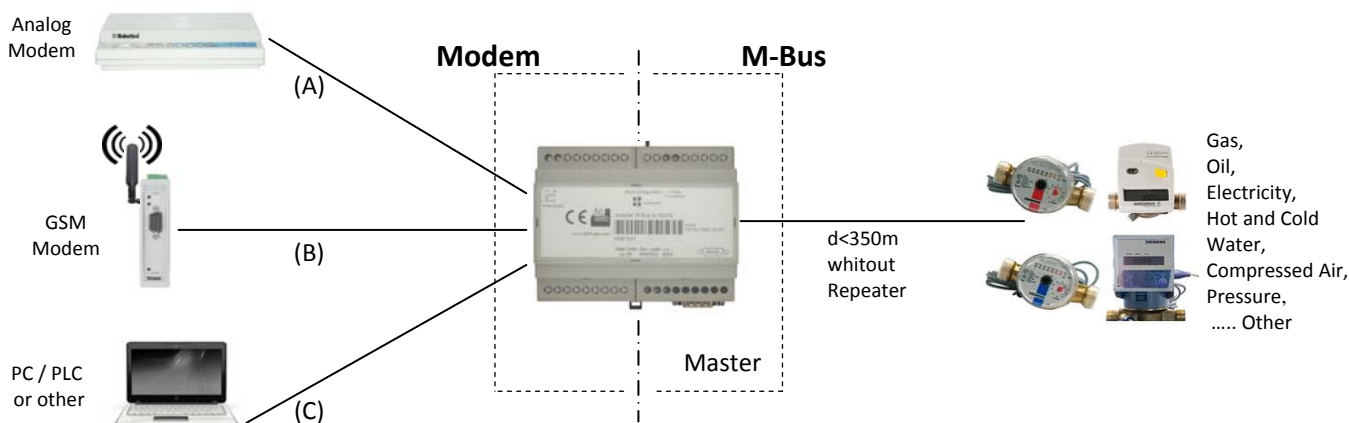
The products of HD67023-B2 serie are level converters that allows to communicate with the Slaves M-bus remotely, using or an Analog Modem or a GSM Modem. Moreover it is possible to connect directly to the device using a Null-Modem serial cable.

The HD67023-B2 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.

- European standard EN 1434
- Microprocessor control
- Scalable from 1 to 250 slaves
- Galvanic isolation between RS232 (Modem connection) and M-Bus
- 35 mm DIN rail mounting
- Settable transmission speed from 300 to 38400 baud



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Order Code	HD67023-B2-20	HD67023-B2-40	HD67023-B2-80	HD67023-B2-160	HD67023-B2-250
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):	38V	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:	300 .. 115.200 baud	300 .. 115.200 baud	300 .. 115.200 baud	300 .. 115.200 baud	300 .. 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 M-Bus Master HD67023-B2

