

Protocol Converter: to

HD67053-B2 Serie - Available in 5 versions: 20-40-80-160-250 slaves

Protocol Converter HD67053-B2 Serie:

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

PROFIBUS:

Is a field bus used in the industrial automation for the communication between one or more Master, usually PLC, and remote I/O (sensors and/or actuators). It is possible to connect up to 126 nodes in a PROFIBUS network.

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:

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

- ♦ Modbus to M-Bus [HD67029M serie]
- ♦ Modbus TCP to M-Bus [HD67044-B2 serie]
- ♦ M-Bus to Modbus [HD67059M serie]
- ♦ CANopen to M-Bus [HD67051-B2 serie]
- ♦ DeviceNet to M-Bus [HD67058-B2 serie]
- ♦ Modbus to Multi-Master M-Bus [HD67063]
- ♦ ... other www.adfweb.com

PROFIBUS to M-Bus HD67053-B2

The products of HD67053-B2 series are protocol converter between PROFIBUS and M-Bus. They allows to have available, on PLC/PC that communicates on PROFIBUS, the informations of M-Bus Slaves devices.

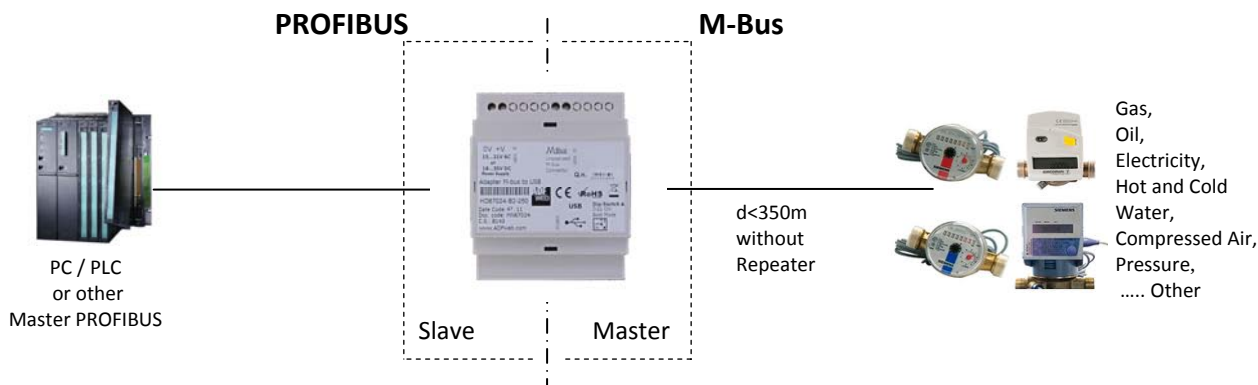
The converter is Slave at PROFIBUS side and Master at M-Bus side.

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 PROFIBUS 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:	HD67053-B2-20 20 slaves	HD67053-B2-40 40 slaves	HD67053-B2-80 80 slaves	HD67053-B2-160 160 slaves	HD67053-B2-250 250 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 PROFIBUS:	up to 12 Mbps	up to 12 Mbps	up to 12 Mbps	up to 12 Mbps	up to 12 Mbps
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



ADFweb.com srl
Strada Nuova, 17
31010 Mareno di Piave
Treviso — ITALY
www.adfweb.com

Tel. +39-0438-30.91.31
Fax +39-0438-49.20.99
Id. Tax IT-0385360262
info@adfweb.com

QR—quick response
(matrix code)
info PROFIBUS to M-Bus
HD67053-B2 serie

