

M-Bus adapter – Protocol Converters

AD-01



- ⌘ Create larger M-bus networks
 - Converter between RS-232 and M-Bus
 - M-Bus repeater
 - M-Bus zone controller
- ⌘ Designed for use in harsh industrial applications
 - Total galvanic isolation & transient protection
 - Industrial EMC, shock and vibration approval tests
 - Serial connection with D-sub or screw terminal
- ⌘ Easily configurable
 - DIP switch configuration or M-Bus protocol
 - 250 Individual addresses
 - Data rate set by the protocol or autobaud
- ⌘ Solution provider for metering networks
 - Two M-Bus interface configure options master or slave
 - Extend an M-Bus network over modem or ISDN connection
 - The AD-01 master interface can drive up to 120 slave loads



EN 61000-6-2
Industrial Immunity

EN 61000-6-3
Residential Emission

The AD-01 is an M-Bus adapter that can operate in different communication modes. With the AD-01 it is possible to connect standard RS-232 equipment to an M-bus network. When using the AD-01 as a repeater 120 new slaves can be added to a network. In large networks the AD-01 can be used as zone controller; the RS-232 port and M-bus slave ports can then be activated/deactivated by M-Bus commands.

The AD-01 is designed for use in heavy duty industrial applications. Galvanic isolation between all interfaces guarantees communication in the worst environments. The AD-01 has been tested to meet many EMC, isolation, vibration and shock standards, all to the highest levels suitable for heavy industrial environments.

DIP switches are used for all configuration options, parts of the M-Bus protocol is also implemented in case software configuration is needed.

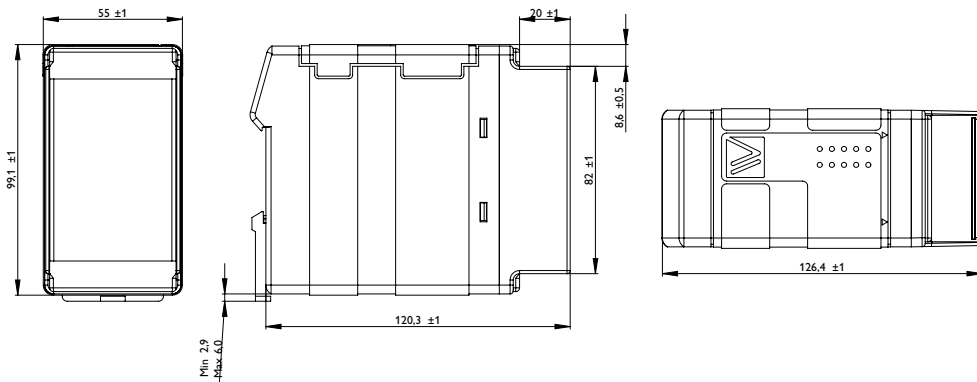
The AD-01 is an industrial adapter for M-Bus communication. AD-01 is a flexible product for the building of M-Bus networks or to extend an M-bus network over a modem or ISDN.

Ordering Information

Art.no	Description
3612-0001	M-Bus adapter; RS-232, DIN model, 230 VAC

Specifications AD-01

Dimensional drawing



Dimension W x H x D 55 x 100 x 132 mm (2.16 x 3.93 x 5.19 in)
 Weight 0.9 kg
 Degree of protection IP 20

Power

Operating voltage	207 – 253 VAC
Rated current	150 mA @ 230 VAC

Interfaces

M-Bus (master and slave)	M-Bus according to EN1434-3 Up to 9600 bit/s Master: Up to 120 slave loads Slave: Maximum 2 slave loads 5-position screw terminal
RS-232/V24 (master and slave)	RS-232/V.24 Up to 9600 bit/s Master: 9-position screw terminal (DTE) Slave: 9-position screw terminal (DCE), 9-position D-sub (DCE)

Temperature

Operating	0 to +50°C (32 to +122°F)
Storage & Transport	-25 to +70°C (-13 to +158°F)

Agency approvals and standards compliance

EMC	SS-EN 61000-6-2/SS-EN 61000-4-11
	SS-EN 61000-6-2/SS-EN 61000-4-2: 4 kV CD, 8 kV AD
	SS-EN 61000-6-2/SS-EN 61000-4-5: 2 kV power, 1 kV signals
	SS-EN 61000-6-2/SS-EN 61000-4-4: 2 kV power, 1 kV signals
	SS-EN 61000-6-2/SS-EN 61000-4-6: 10 V/m
	SS-EN 61000-6-2/SS-EN 61000-4-3: 10V/m
	SS-EN 50081-1/SS-EN 55022 class B
Safety	EN 60950