

# Z-MBUS

## RS232 ↔ M-BUS SERIAL ADAPTER

### Highlights

- **Power supply: 11..40 Vdc; 19..28 Vac (@50-60 Hz) from both terminals and rear IDC10 connector**
- **Operating temperature: -20..+70°C**
- **Connections: Nr.1 M-BUS port, Nr.1 RS232 port, Nr.1 Micro USB port, Nr.1 IDC10 connector (power supply), Nr.1 M-BUS port (METER-BUS)**
- **Number of slave nodes: 25**
- **Max- Speed: 300 – 38.400 bps**
- **M-BUS Voltage: 28 Vdc**
- **Maximum distance: 3.000 m**
- **Mounting: On omega DIN rail IEC EN 60715**

Z-MBUS adapter, connected to the serial port COM1 - RS232 of Seneca Z-TWS4, Z-PASS2-S S6001-RTU and other controllers, allows the support of M-Bus networks by powering up to 25 M-Bus devices per module. Alternatively, with the Micro USB port on board, you can access to the M-Bus network from a PC.

From the webserver interface integrated in SENECA controller it is possible to scan / configure / diagnose Z-MBUS slave devices. The management of M-Bus devices is done through integrated tools in the web server configuration, scanning, diagnostics and appropriate IEC 61131 Straton reading function block.

M-Bus is the main bus featured in energy metering and intelligent management of the meters for separate recording of heat, water, power and gas consumption as well as sensors and actuators.



## RS232 ↔ M-BUS SERIAL ADAPTER

### TECHNICAL DATA

#### GENERAL DATA

Power supply	11..40 Vdc; 19..28 Vac (@50-60 Hz) from both terminals and rear IDC10 connector
Power consumption	2,4 W
Isolation	1.500 Vac @3-ways
Led Status indicators	Power supply Data transmission/reception on M-BUS port
Connections	Removable 3-way screw terminals, 5 mm pitch for cable up to 2.5 mm <sup>2</sup>
Protection degree	IP20
Operating temperature	-20..+70 °C
Dimension (wxhxd)	100 x 17,5 x 112 mm
Weight	140 g
Case	Black plastic PA6 glass filled, black color
Mounting	For 35 mm rail IEC EN 60715

#### SERIAL COMMUNICATION

Nr. Ports	1
Type	COM#1 RS232 port on terminals M7-M8-M9

#### USB COMMUNICATION

Nr. Ports	1
Type	Micro USB on front connector

#### M-BUS COMMUNICATION

Nr. ports	1 (M10-M12 terminals)
Nr. Max M-BUS slave nodes	25
Baud rate	From 300 to 38.400 bps
Voltage	28 Vdc
Max length	3.000 m

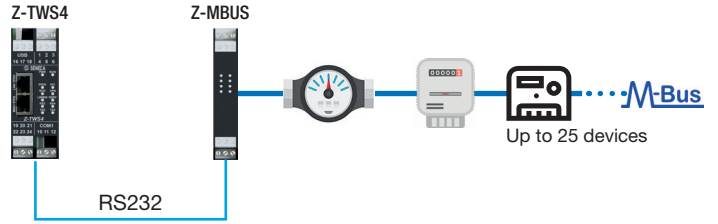
#### SETTINGS AND SOFTWARE (WITH SENECA CONTROLLERS)

Webserver	Yes
Configuration via web server	Read status (max 50 tags per page), settings M-BUS devices, M-BUS network scan, tags, firmware and database update
SDD (Seneca Discovery Device)	Yes

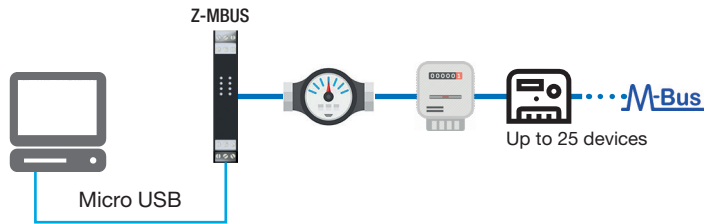
#### STANDARDS

Approvals	CE
Norms	EN 61000-6-4, EN 61000-6-2, EN 61010-1

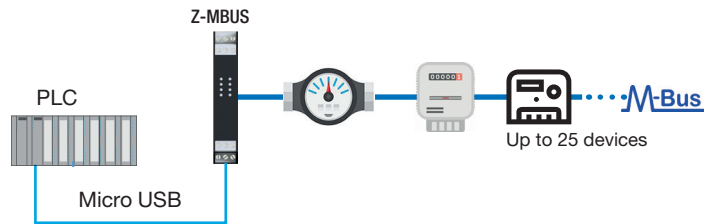
### CONNECTION EXAMPLE WITH SENECA CONTROLLER



### CONNECTION EXAMPLE WITH PC / MICRO USB PORT



### CONNECTION EXAMPLE WITH THIRD PARTIES PLC M-BUS SUPPORTING



#### ORDER CODES

Code	Description
Z-MBUS	RS232 ↔ M-BUS serial adapter
<b>ACCESSORIES</b>	
CS-DB9M-MEF-PH	Serial communication cable (DB9M connector / 4-way female connector) 3 wires mt 1,5
CS-TIP-MEF-PH	Serial communication cable (Tips / 4-way female connector)
CU-A-MICROB	Plug cable USB-A Micro USB-B 5 P
Z-PC-DIN2-17.5	DIN rail quick mounting support - 2 slot P=17.5mm
Z-PC-DINAL2-17.5	DIN rail quick mounting support - head +2 slot P=17.5mm