

# INSTRUCTION MANUAL

Level converter-MPW16 serial, RS232/RS485

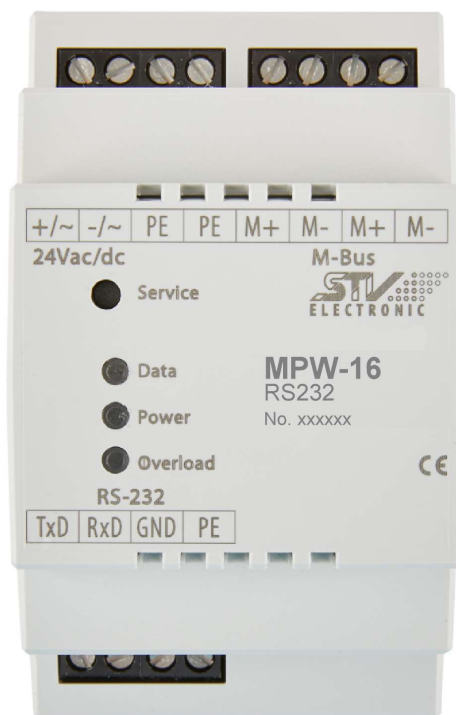


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## SAFETY INSTRUCTIONS



Installation and assembly of these electrical devices may only be carried out by a qualified electrician.



Read these operating instructions carefully. All safety instructions must be followed.

## SERVICE and SUPPORT

If you have any questions about our products or need assistance with commissioning, our service team will be happy to help.

You can reach us Monday to Friday from 8:00 to 16:00 via the following means:

**STV Electronic GmbH Service**

**Tel: +49 (0) 5207 – 9131 – 0**

**e-mail: [info@stv-electronic.de](mailto:info@stv-electronic.de)**

**web: [www.stv-electronic.de](http://www.stv-electronic.de)**

## PRODUCT and SERVICE DESCRIPTIONS

### Intended use

The level converters MPW16 Serial are intended for converting M-Bus signals into other signal forms such as RS-232 or RS-485. The level converters are only suitable for operation in closed locations (e.g. control cabinet).

## Technical Data

	<b>MPW16-RS-232</b>	<b>MPW16-RS-485</b>
<b>Art.No.</b>	95560	95561
<b>Supply voltage. DC</b>	24V ±20%	
<b>Supply voltage. AC</b>	24V ±5%	
<b>Self-consumption</b>	85 mA at 24Vdc	
<b>Ingress protection</b>	IP 20	
<b>Operating temperature</b>	0 ... 50°C	
<b>Relative humidity</b>	0 ... 90% (without condensation)	
<b>M-Bus voltage</b>	37 V	
<b>M-Bus current</b>	MPW16: 24 mA (16 standard loads @ 1,5 mA)	
<b>Over current threshold</b>	M-Bus current >30 mA	
<b>Galvanic isolation</b>	Between supply voltage, RS-232 / RS-485 and M-Bus	
<b>Collision detection</b>	yes	
<b>Data rate M-Bus</b>	300 ... 38400 Baud	
<b>Interfaces</b>	1 x RS-232	1 x RS-485
<b>Measurements (WxLxH)</b>	52,5 x 90 x 64 mm (3HP)	
<b>Mounting</b>	On mounting rail TS35 or with screw lugs	
<b>Weight</b>	approx. 135 g	
<b>Displays</b>	Data: Tx/Rx two-coloured (yellow, green) Power: supply voltage (green) Overload: M-Bus over current (red)	
<b>Button</b>	Service: Set factory settings, press and hold for 30 s until the power LED flashes.	

## Mounting

### Mounting on mounting rail

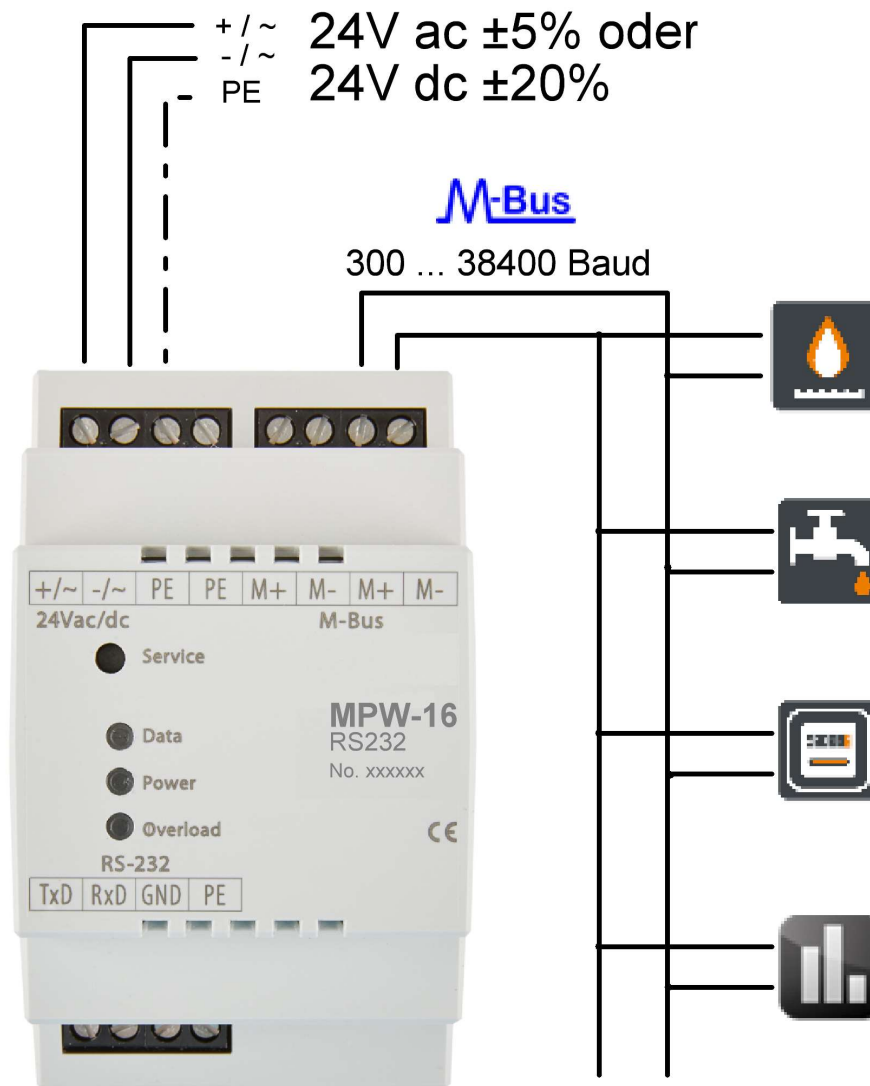
The level converters can be mounted on commercially available mounting rails of type TS35 by snapping them on. A single level converter takes up a width of 52.5 mm (3HP).

### Mounting with screw lugs

To attach the level converters with screw lugs, the black lugs on the back of the housing must be pushed outwards until they snap into place.

When engaged, the level converter can be screwed on with two M4 screws (top and bottom).

## Electrical connection

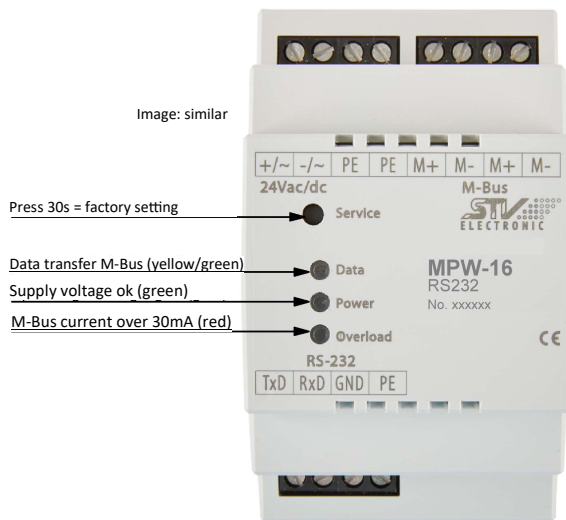


↑  
 Abb. ähnlich  
 MPW16-RS-232 Art 095560  
 MPW16-RS-485 Art 095561



Installation and assembly of these electrical devices may only be carried out by a qualified electrician.

## Commissioning



After connecting the power supply, the green "Power" LED starts to light up.

Press the service button for at least 30 seconds. The power LED flashes and the level converter restarts. (Reset)

The data display shows the data transfer of the serial communication  
Yellow: Transmitting, Green: Receiving

The overload indicator shows the overloaded M-Bus.

### MPW16-RS-232



### MPW16-RS-485



## Disposal



According to European Directive 2012/19/EU, electrical appliances must be collected separately and disposed of in an environmentally sound manner.