

## Digital weight transmitter MP 26



German Quality

### ! Benefits

- Simple weight transmitter for one scale
- Full digital signal processing with up to 20,000 divisions Resolution
- Analogue output 0/4... 20 mA, 0/2..10 V, fully galvanically isolated from supply
- Direct calibration and configuration via front keys or via PC-Engineering Tool MP 26/10
- Supply voltage 230 V (24 V Option)
- Protection class IP20
- DIN-Rail mounting

The MP 26 series of digital weight transmitters is designed to combine reliable weight information from process vessels with extremely easy operation and setup. A wide range of strain gauge load cells can be connected and output is provided in the common 4... 20 mA signal format. Direct access to all configuration and operation levels via the front keys. The MP 26/10 engineering tool provides the same level of access via a comfortable PC-Program.

### Description

The transmitter is designed for the use in typical control cabinets on convenient DIN rails. Multiple instruments can be easily lined up in the cabinet. The very slim housing concept saves space.

The full galvanical isolation of input circuit and the analogue output from the supply make the instrument especially easy and safe to integrate. The direct-access front end interface and the optional PC-Tool MP 26/10 make the instrument ideal for all applications where ease of use and a simple but effective data acquisition of weight values is required. The built-in Zero-set function allows for simple adaptation of Zero to changing dead loads. The standard input control circuit and the limit/alarm function can be combined and provide in conjunction with the built-in relay simple direct process control.

The Transmitter is equipped with plug-gable screw terminals. This Terminals allow an easy installation and exchange of Instruments.

The Sense-amplifier supports 4 and also 6 wire Load Cells. This allows connections over long distances without losing accuracy.

### Input circuit control

Continuous control of input circuit and input signal range.

### Zero set function

To suppress changing dead loads via the front keys or an external switch.

### Messwertfilter

Intelligent first order low pass filter to suppress unwanted signal deviation caused by external disturbances. Adjustable time constant and tolerance band. Signal changes that exceed the set tolerance band will by-pass the filter directly for speedy response.

## Technical specifications

Digital weight transmitter MP 26	
Parameter	Description
Load cell supply	<ul style="list-style-type: none"> <li>- 10 V<sub>DC</sub></li> <li>- max. 4 Load cells a 350 Ω</li> <li>- 4- or 6-wire connection</li> <li>- Resolution: 20.000 Div.</li> <li>- Not W&amp;M approved</li> </ul>
Measuring time	50 ms
Sensor circuit	Fully galvanically isolated from input and supply.
Display	The two line LCD Display allow the indication of the weight an the full operation of the instrument. One LED and four further Display elements inform about the system status and error messages.
Analogue output	<ul style="list-style-type: none"> <li>- 0/4... 20 mA, 0/2...10 V configurable</li> <li>- internal Resolution: 14 bit,</li> <li>- useable stepwith 1.5 μA</li> <li>- Impedanze 600 Ω / 2 KΩ max.</li> </ul>
Digital In- / Outputs	<ul style="list-style-type: none"> <li>- Relais, Function configurable</li> <li>- 1 × IN, 5 V, 0.5 mA</li> <li>- 2 × OUT, 250 V, 2 A</li> </ul>
In- / Output	All I/O circuits fully galvanically isolated from sensor input and supply.
Power supply	<p>Version MP 26/00</p> <ul style="list-style-type: none"> <li>- Voltage: 90...260 V<sub>AC</sub></li> <li>- 11.5 V<sub>A</sub></li> </ul> <p>Version MP 26/01</p> <ul style="list-style-type: none"> <li>- Voltage 18-30 V<sub>AC/DC</sub></li> <li>- 8.5 V<sub>A</sub>/5.8 W</li> </ul>
Environmental conditions	<ul style="list-style-type: none"> <li>- Temperature Operation: -10... +55°C</li> <li>- Storage: -30... +70°C</li> <li>- Humidity: 90 % RH</li> </ul>
Protection class	<ul style="list-style-type: none"> <li>- Housing/connectors IP20</li> <li>- Mounting: 35 mm DIN rail (DIN46277)</li> </ul>
Electrical connections	All electrical connections via modular screw terminals for 2.5 mm <sup>2</sup> max.
Dimensions	99 × 117.5 × 22.5 mm
Weight	0.200 kg netto

## Technical diagrams

**Digital weight transmitter MP 26**

Example: Connection of 4- or 6- wire Load Cells

Only with 6-wire connection

All dimensions in mm

## Ordering Information

Digital weight transmitter MP 26		
Model	Description	Order number
MP 26/00	Digital weight transmitter 230 V	940880026001
MP 26/01	Digital weight transmitter 24 V	940880026011
MP 26/10	Configuration Software incl. connection cable	940880026101

The products and solutions presented in this data sheet make major contributions in the following sectors:



The technical data given serves as a product description only and should not be understood as guaranteed properties in the legal sense.

Specifications subject to change without notice.  
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