



MP 26 Digital Process Transmitter



- Simple Weighing 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

Product profile

The MP 26 series of Digital Process 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.

Input signal filter

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 Data

Load cell supply

10 VDC,
max. 4 Load cells a 350 Ω
4- or 6-wire connection

Resolution:
20.000 Div.
Not W&M approved

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 on the full operation of the instrument. One LED and four further Display elements inform about the system status and error messages.

Analogue output

0/4... 20 mA, 0/2...10 V configurable
internal Resolution: 14 bit,
useable step with 1.5 μ A
Impedanz 600 Ω | 2 K Ω max.

Digital In- | Outputs

Relais, Function configurable
1 $\times$ IN, 5 V, 0.5 mA
2 $\times$ OUT, 250 V, 2 A

In- | Output

All I | O circuits fully galvanically isolated from sensor input and supply..

Power supply

Version MP 26/00
Voltage: 90...260 V AC
11.5 VA

Version MP 26/01
Voltage 18-30 V AC/DC
8.5 VA/5.8 W

Environmental conditions

Temperature
Operation: -10... +55 $^{\circ}$ C
Storage: -30... +70 $^{\circ}$ C
Humidity: 90 % RH

Protection class

Housing | connectors IP20

Mounting: 35 mm DIN rail (DIN46277)

Electrical connections

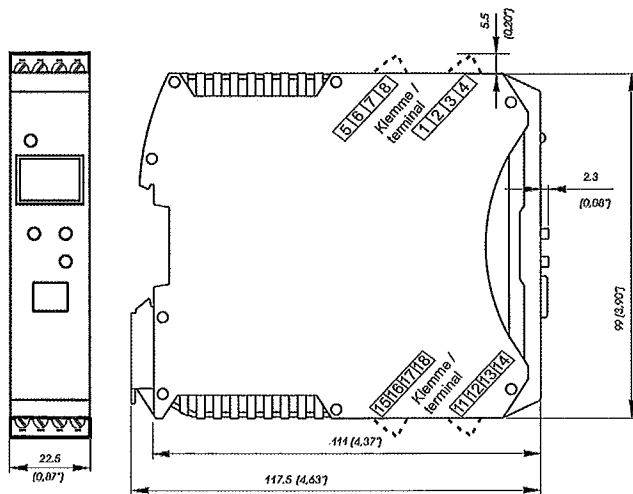
All electrical connections
via modular screw terminals for
2.5 mm² max.

Dimensions

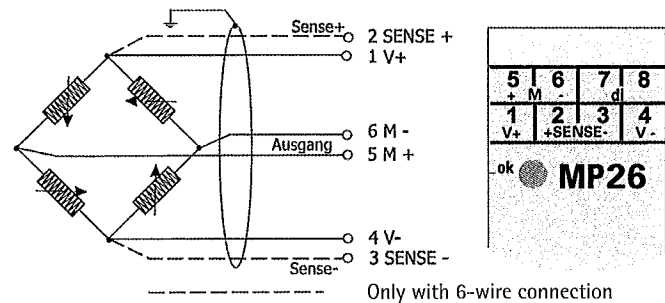
99 $\times$ 117.5 $\times$ 22.5 mm

Weight

0.200 kg netto



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



Order information

Type	Description	Order number
MP 26/00	Digital Process Transmitter 230 V	9408 800 26001
MP 26/01	Digital Process Transmitter 24 V	9408 800 26011
MP 26/10	Configuration Software incl. connection cable	9408 800 26101