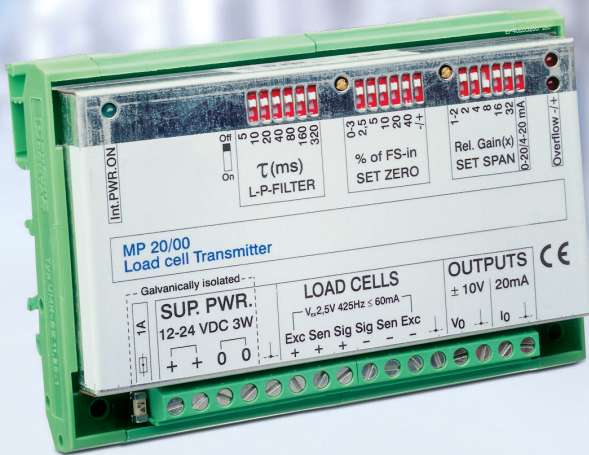


Analogue weight transmitter MP 20



! Benefits

- Linearity better than 0.01% of full scale
- Easy calibration
- Easy mounting

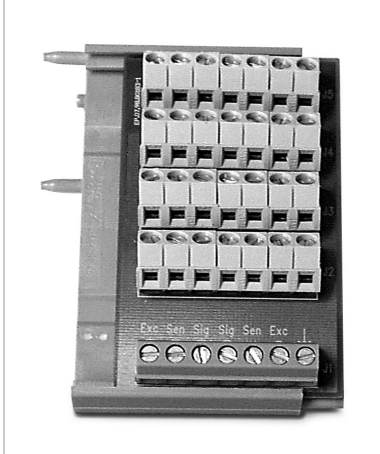
- ① Analogue outputs 0/4 to 20 mA and 0 to 10 V_{DC} simultaneously usable
- ① Four load cells of 350 Ω can be powered
- ① Active low pass filter from 0.25 Hz to 32 Hz

- ① Supply voltage 12 – 24 V_{DC}
- ① Zero offset up to +/- 80% of full scale
- ① Input signal range up to 3.3 mV/V

Technical specifications

Analogue weight transmitter MP 20

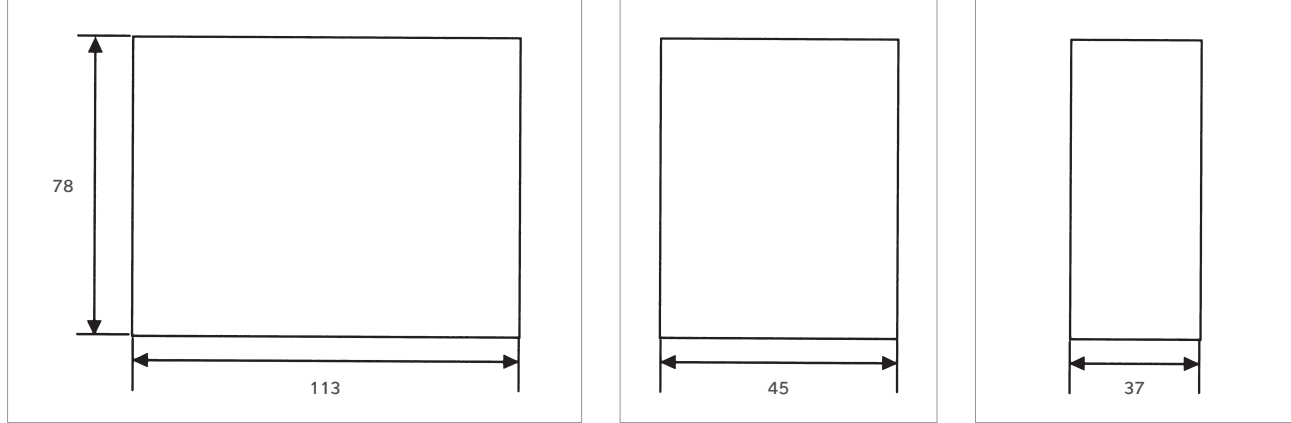
Parameter	Description
Protection class	Housing: IP40 (DIN 40050)
Power supply	12–24 V _{DC} +10/-15%
Power consumption	3 W max.
Mounting	Snap on DIN-rail mountable by Phoenix UMK modul
Load cell input	<ul style="list-style-type: none"> – max. four 350 Ω load cells – Excitation voltage: 2.5 V_{AC} 425 Hz – Excitation current: max. 60 mA – Input gain range for F.S.: 0–0.17 mV/V up to 0–3.3 mV/V – Dead load compensation: 80% of max. input – max. cable length: appr. 150 m
Analogue output	<ul style="list-style-type: none"> – Voltage output (V_{out}): +/- 10 V_{DC} at min 500 Ω – Current loop output (I_{out}): 0/4–20 mA at max. 500 Ω – Deviation between V_{out} and I_{out}: 3% of F.S.
Accuracy	<ul style="list-style-type: none"> – Linearity: < 0.005% F.S. at 23°C – Temperature effect on zero: < 0.003%/K – Temperature effect on span: < 0.0015%/K – Max. deviation 0-F.S.: < 50 ppm – Signal filter: active low pass filter in 64 steps from 0.25–32 Hz – Drift 5 min. upon power on: < 20 ppm of F.S.
Environmental conditions	<ul style="list-style-type: none"> – Temperature range: -10 to +40°C – Dimensions in mm: 113×77×37 (W×D×H) – Weight: appr. 0.2 kg – Warm up time: 30 minutes
Optional load cell junction unit MP 20/30	up to four 350 Ω load cells connectable



MP 20/30 four LC junction unit

Technical diagrams

Analogue weight transmitter MP 20



Front view MP 20/00

Front view MP 20.../30...

Side view MP 20.../00.../30...

Order information

Analogue weight transmitter MP 20		
Type	Description	Order number
MP 20/00	Analogue load cell transmitter	940880020001
MP 20/30	Four LC connection unit	940880020301

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.
Rev. 07/2023

Minebea Intec GmbH
Meiendorfer Strasse 205 A
22145 Hamburg, Germany
Phone +49.40.67960.303
sales.hh@minebea-intec.com
www.minebea-intec.com