

Analogue weight transmitter MP 20



- **Benefits**
- Linearity better than 0.01% of full scale
- Easy calibration
- Easy mounting by using Phoenix DIN rail module



- Analogue outputs 0/4 to 20 mA and 0 to 10 $V_{\rm DC}$ simultaneously usable
- Four load cells of 350 Ω can be powered
- Active low pass filter from 0.25 Hz to 32 Hz
- Supply voltage $12-24 V_{DC}$ or 110 $V_{AC}/230 V_{AC}$ via MP 20/20
- Zero offset up to +/- 80% of full scale
- 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	$-$ 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	– 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	 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	 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 power supply unit MP 20/20	110/230 V _{AC}
Optional load cell junction unit MP 20/30	up to four 350 Ω load cells connectable



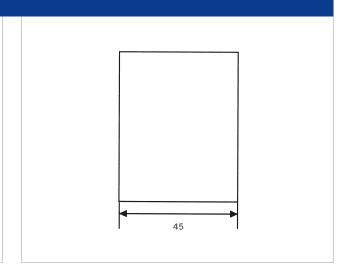




MP 20/30 four LC junction unit

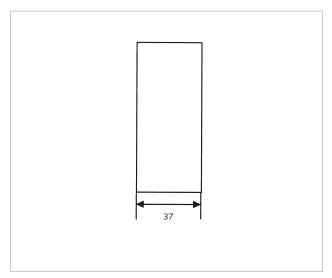
Technical diagrams

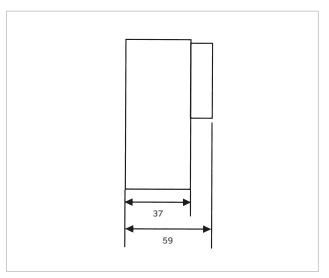
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Front view MP 20/00

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





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

Side view MP 20/20

Order information

Analogue weight transmitter MP 20			
Туре	Description	Order number	
MP 20/00	Analogue load cell transmitter	940880020001	
MP 20/20	110/230 V _{AC} power supply unit	940880020201	
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.