



MP 20 Analogue Load Cell Transmitter



- Linearity better than 0.01 % of full scale
- Analogue outputs 0/4 to 20 mA and 0 to 10 V_{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
- Easy calibration
- Easy mounting by using Phoenix DIN rail module

Protection class
Housing: IP 40 (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 (Vout):
+/- 10 V_{DC} at min 500 Ω
Current loop output (Iout):
0/4-20 mA at max. 500 Ω
Deviation between Vout and Iout:
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 dual setpoint unit MP 20/10
Two FORM-C reed relays
Up to eight setpoints can be arranged with four units
Relay coil voltage: 12-24 V_{DC}
Relay coil current: < 25 mA

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



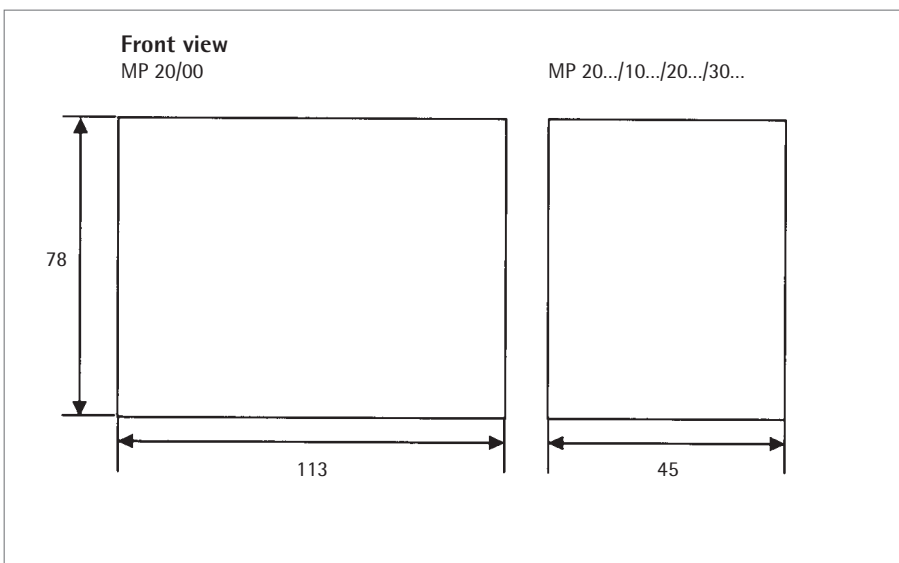
MP 20/10 dual setpoint unit



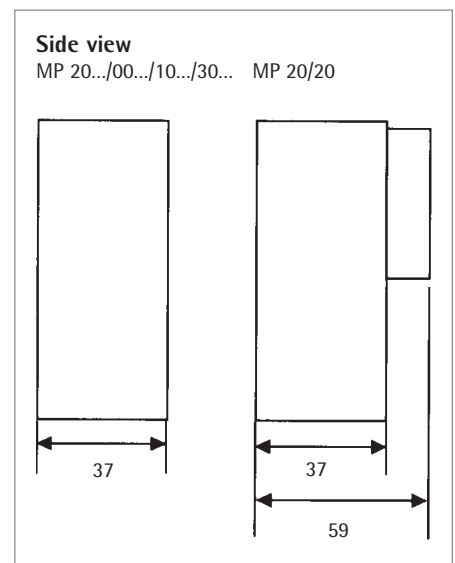
MP 20/20 110/230 V_{AC} power supply



MP 20/30 four LC junction unit



Dimensions in mm



Order information

Type	Description	Order number
MP 20/00	analogue load cell transmitter	9408 800 20001
MP 20/10	dual set point unit	9408 800 20101
MP 20/20	110/230 V _{AC} power supply unit	9408 800 20201
MP 20/30	four LC connection unit	9408 800 20301

The technical data given here serve only as a product description and must not be interpreted as guaranteed characteristics in the legal sense.

Specifications subject to change without notice.
 Printed in Germany.
 n/sart - C
 Publication No.: HMP2001-e10101
 Order No.: 9498 708 20001
 Version 07.2010

Sartorius Mechatronics T&H GmbH
 Meiendorfer Strasse 205
 22145 Hamburg, Germany

Phone +49.40.67960.303
 Fax +49.40.67960.383

info.mechatronics@sartorius.com
www.sartorius-mechatronics.com