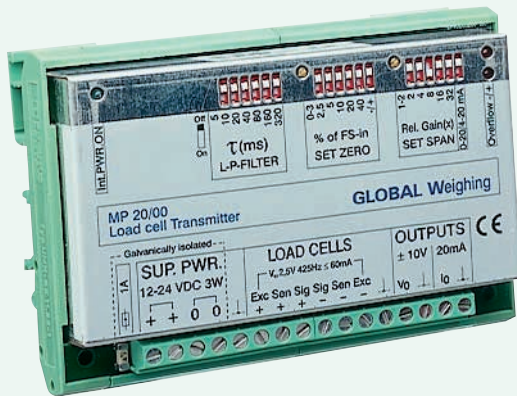


Analogue Load Cell Transmitter

global weighing technologies



MP 20

- Linearity better than 0.01 % of full scale
- Analogue outputs 0/4 to 20mA and 0 to 10 V_{DC} simultaneously usable
- Four load cells of 350 Ohm can be powered
- Active low pass filter from 0.25 Hz to 32 Hz
- Supply voltage 12- 24 V_{DC} or 110V_{AC} / 230V_{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 module

Load cell input

Max. four 350 Ω load cells

Excitation voltage: 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: 113x77x37 (WxDxH)

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

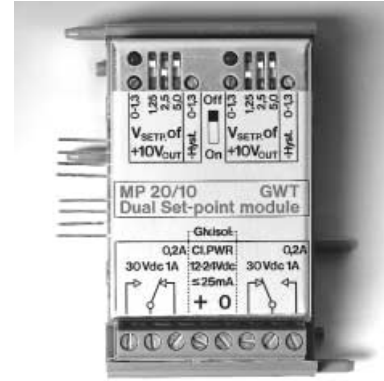




MP20/20 110/ 230V_{AC} power supply



MP20/30 four LC junction unit



MP20/10 dual setpoint unit

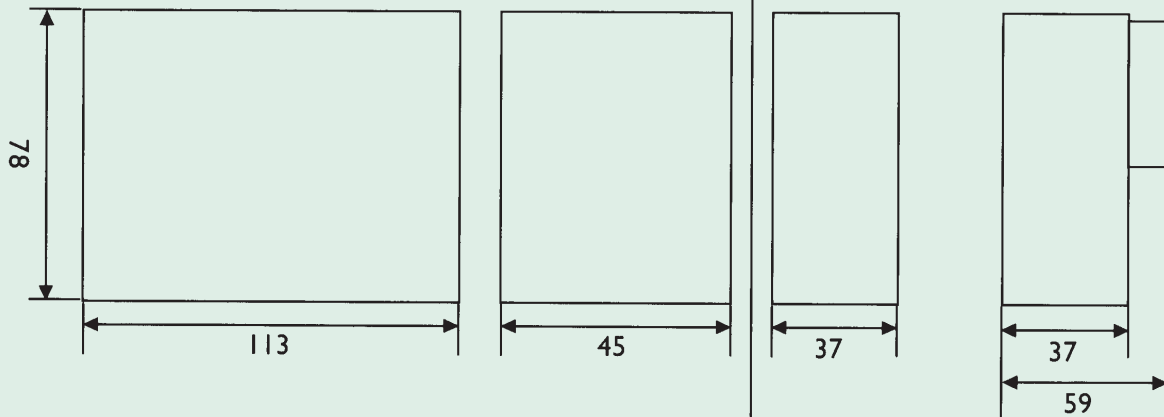
DIMENSIONS all in mm

Front view
of MP 20/00

of MP 20
../10../20../30

Side view
of MP 20
../00../10../30

of MP 20/ 20



Order numbers:

MP20/00	transmitter unit	9408 800 20001
MP20/10	dual set point	9408 800 20101
MP20/20	230 V _{AC} power	9408 800 20201
MP20/30	four LC junction	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.

