

Digital Pressure Gauge for Gauge, Absolute and Differential Pressure



measuring

monitoring

analysing

MAN-SF/-BF



- Measuring range: -1...1600 bar
- Accuracy class: 0.5
- Material: Stainless steel and ceramic
- Analogue outputs: 0/4 - 20 mA, 0 -10 V
- Interface RS 232
- Option: Version with up to 4 potential free alarm contacts
- Adjustment locking by password
- High overrange protection



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Description

The intelligent KOBOLD digital pressure gauges are intended for indicating, monitoring and remote transmission of pressure-dependant processes in machines and production plants. Indication occurs by means of an easily visible 4-digit green LED-display of 14 mm. The version with relays can carry up to 4 alarm contacts to be set with the keypad. (backlit LCD-display). Other interfaces are available as options.

Measuring principle

The pressure is detected by a piezo-resistive sensor and transformed by the electronics into an analogue signal which is proportional to the pressure. Parallel to the indication is also an analogue output for remote transmission of the values measured.

Application

- Food and beverage industries (with diaphragm mounting)
- Engineering
- Machine and apparatus construction
- Pneumatics, hydraulics
- Filter monitoring

Technical Data

Measuring range: -1...0 bar to 0...1600 bar

(0...2000 bar on request)

Accuracy class: 0.5

Linearity

incl. hysteresis: $\leq \pm 0.5\%$ v. Ew. Repeatability: $\leq \pm 0.1\%$ v. Ew.

Temperature

Medium: -20...+85°C
 Ambient: -20...+60°C
 Coefficient (offset): ≤0.3% / 10 K, v. Ew.
 Coefficient (span): ≤0.3% / 10 K, v. Ew.

Response time: 0.3 s (adjustable from 0.1 s)

Nominal size: 100 mm Overload limit: 2 times

Housing: Stainless steel 1.4301

Process connection: G ½ male, bottom

stainless steel 1.4571 (> 400 bar sensing cell

st. st.1.4542) other on request (G ¼, ½" NPT, ¼" NPT)

Front plate: Polyester foil on AL carrier

Relay (option): Changeover

Adjustable parameter: Limit value, hysteresis,

Delay (0, 10...99,99 s)

Switch capacity: 250 V_{AC}, 3 A, 50 VA

220 V_{DC}, 3 A, 60 W

Output signal: 4-20 mA, 0-20 mA oder 0-10 V

Max. load: $\leq 500 \Omega$ (mA-output)

 \geq 500 Ω (V_{DC} -output)

Protection: IP 65

Electrical connection: Terminal box

(Phoenix model Mini-Kombicon

3.81 or 5.08 mm)

Supply: $18-30 V_{DC}$

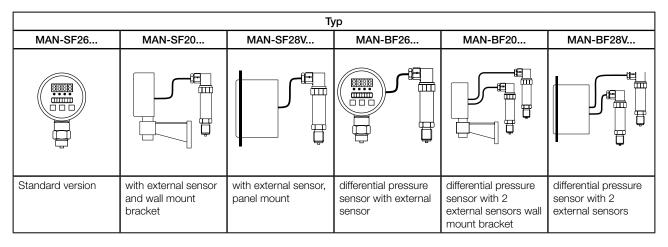
Optionen

Frontflush diaphragm Interface RS 232 Peak memory Absolute pressure Differential pressure Scalable display Scalable output

Mounting of diaphragm seals 5 times overpressure proof Longer sensor cable



Order Details (Example: MAN-SF26 AD A4 K)



Order Details (continuation)

Indicating range* others on request	Analogue output	Contact output	Options please specify in writing
AD = -10 bar A1 = -1 +1.5 bar A2 = -1 +5 bar A3 = -1 +5 bar A4 = -1 +9 bar A5 = -1 +15 bar B1 = 00.6 bar B2 = 01 bar B3 = 01.6 bar B4 = 02.5 bar B5 = 0 4 bar B6 = 06 bar B7 = 010 bar B8 = 016 bar B9 = 025 bar C1 = 025 bar B0 = 025 bar C1 = 025 bar C2 = 0100 bar C3 = 0100 bar C4 = 0250 bar C5 = 0400 bar C6 = 0600 bar D7 = 01000 bar D8 = 01000 bar	A4 = 4-20 mA A0 = 0-20 mA AV = 0-10 V	G = 2 limit contacts M = 4 limit contacts	none = without option F = front flush diaphragm G½ (standard version) front flush diaphragm G 1 (with external sensor from to 1.6 bar) front flush diaphragm G 1 (with external sensor from 1.6 bar) R = interface RS 232 S = peak memory A = absolute pressure (max. 25 bar) U = 5 times overpressure proof (MAN-SF) L = longer sensor cable B = scalable display O = scalable output D = diaphragm seal mounting

^{*} For MAN-BF... the indicating range is equal to the differential pressure measuring range. The statistic pressure for MAN-BF... must always be specified in writing.

Accessories

Power supply for the top hat rail mounting

Model: MZB-NSF 030

Input: 230 V_{AC}

Output: $24 V_{DC} / 500 \text{ mA}$, short-circuit proof

Screw terminals



Dimensions [mm]

