Zertifiziertes QM-System
DIN EN ISO 9001
Zertifikat-Nr. 01017

Pressure Transducer with Local Indication

and Analogue Output

measuring • monitoring • analysing

MAN-ZF

- Housing: 100 mm
- Connection: G½
- Material: stainless steel
- Measuring ranges:
  -1 ... 0 bar ... 0 ... +600 bar
- Analogue output: 4 ... 20 mA
- Options:
  Liquid filling
  Transmitter
- Applications:
  Chemical industry
  Food industry
  Mechanical engineering
  Plant construction

P1

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Application

The KOBOLD all stainless steel pressure transducers are suitable for harsh conditions resulting from high demands on pressure measurement in production plants of the chemical or other comparable industries. The use of high quality stainless steel for both measuring system and housing guarantees resistance against aggressive media and environment. They can be used for liquid or gaseous substances which do not crystallize and which are not highly viscous.
All the pressure gauges comply with general international guidelines and take account of standard as well as application-specific requirements.

Mechanical and electronic pressure measurement

Mechanical pressure measurement uses the principle of an elastic measuring element, which generates a precisely defined, reproducible deflection when subjected to pressure. The motion works convert this into a rotary motion of the pointer. The pressure at the measuring element can be read on the scale of the dial. In addition to the mechanical pressure measurement, there is also an electronic measuring cell built into the housing. This converts the measured pressure into an analogue signal of 4 ... 20 mA.

Housing, installation and connection

The stainless steel housing has a diameter of 100 mm. The gauges are most often installed straight into the customer's screw necks. For pressure gauges to be built into or onto control panels there are also variations with a mounting strip front or back. Gauges are supplied with a G½ connecting thread as standard.
Diaphragm seals can be mounted for viscous, crystallising, aggressive materials or higher temperature materials to prevent the material being measured from penetrating into the measuring system. Other types of connection are available on request.

Measuring ranges and damping liquid

The measuring ranges are graduated according to DIN recommendations and lie between -1 ... 0 bar and 0 ... 600 bar. Other scales with measuring ranges in PSI, Pa or with your company logo are available on request.
Pressure gauges with liquid filling are used in locations with high alternating dynamic loads, strong vibrations and pulses. The filling ensures easy readability through steady pointer movement even when subjected to extreme loading and heavy vibration. The lubricating effect of the glycerine also keeps wear to a minimum. Glycerine is always used as a matter of principle. Silicone fillings of various viscosities are also optionally available.

Technical Details

Connection/Housing	Model: NG 100	
	MAN-ZF26...	MAN-ZF76...
Version	Standard	filled
Accuracy class	1.0	
Diameter	100 mm	
Housing	stainless steel 1.4301	
Connection / Measuring element	stainless steel 1.4571	
Connection (standard)	G ½ male	
Power supply	13 - 30 V_{DC}	
Electrical connection	cable socket on the side	
Temperature of medium	max 60 °C	
Protection	IP 65	IP 67

Measuring range	Code
-1 ... 0 bar	AD
-1 ... 0.6 bar	A0
-1 ... +1.5 bar	A1
-1 ... +3 bar	A2
-1 ... +5 bar	A3
-1 ... +9 bar	A4
-1 ... +15 bar	A5
0 ... 0.6 bar	B1
0 ... 1 bar	B2
0 ... 1.6 bar	B3
0 ... 2.5 bar	B4
0 ... 4 bar	B5
0 ... 6 bar	B6
0 ... 10 bar	B7
0 ... 16 bar	B8
0 ... 25 bar	B9
0 ... 40 bar	B0
0 ... 60 bar	C1
0 ... 100 bar	C2
0 ... 160 bar	C3
0 ... 250 bar	C4
0 ... 400 bar	C5
0 ... 600 bar	C6

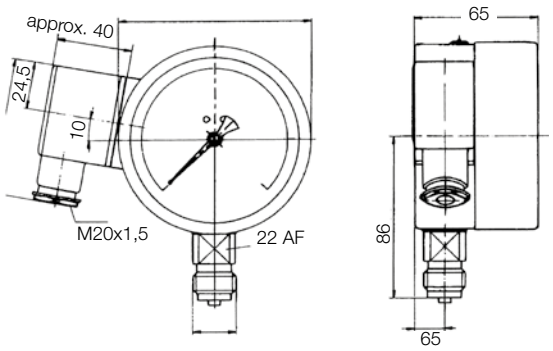
Analogue output	Code
4 - 20 mA	A4

Options	Code
Special conn. like G ¼ (m), ¼" NPT, ½" NPT	Y

Accessories	Code
Power supply unit 230 V_{AC} - 24 V_{DC} (1100 mA)	MZB-NSF030

Dimensions

Mounting (without flange), electrical connection lateral



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