



Pressure Transducer with Local Indication and Analogue Output



measuring
•
monitoring
•
analysing

MAN-ZF



- Housing: 100 mm
- Connection: G ½
- 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 transducer are suitable for harsh conditions resulting from high demands on pressure measurement in production plants of the chemical or other comparable industries. By using 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 G 1/2 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. Silicon fillings of various viscosities are also optionally available.

Technical Data

Connection/Housing	Model: NG 100	
	MAN-ZF26...	MAN-ZF76...
Accuracy class	1.0	
Housing version	stainless steel 1.4301	
Filling	-	Paraffin oil
Ring	stainless steel 1.4301	
Pointer	Aluminium, black anodized	
Movement	stainless steel	
Throttle	from 60 bar D = 0.5 mm	
Window	safety glass	
Measuring element	stainless steel 1.4571	
Protection	IP 65	IP 67
Overrange protection	Rest load 1 times, working load 0.9 times	
Weight	0.7 kg	1.0 kg
Ambient temperature	-20 ... +60 °C	
Connection	stainless steel 1.4571	
Thread connection	G 1/2 male	
Max. medium temp.	60 °C	
Supply	13-30 V _{DC}	
Output	4 ... 20 mA, 2-wire	
Contact	on request	

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

Dimensions

Mounting (without flange), electrical connection lateral

