



- Measuring range:
-1 to 1600 bar
- Accuracy class: 0.5
- Material: stainless steel
and ceramic
- 4-segment LCD display
- Option: 0-2 V_{DC} output,
min/max memory,
relay



KOBOLD offices exist in the following countries:

ARGENTINA, AUSTRIA, BELGIUM, BRAZIL, CANADA,
CHINA, FRANCE, GREAT BRITAIN, ITALY, NETHERLANDS,
POLAND, SWITZERLAND, USA, VENEZUELA

KOBOLD Messring GmbH
Nordring 22-24
D-65719 Hofheim/Ts.
☎ (06192) 299-0
Fax (06192) 23398
E-mail: info.de@kobold.com
Internet: www.kobold.com

Model:
MAN-SD



Description

This intelligent digital pressure gauge can be used for indicating, monitoring and remote transmission of pressure in machines and plant sectors. A piezzo resistive transducer senses the pressure to be measured and indicates it on the electronic display. Optional analogue output for the remote transmission of the values to be measured or a relay output may be added to the visible 4-segment LCD display. The front panel with display can be rotated allowing easy viewing.

The switch point and hysteresis of the model with relay are programmable using the key pad. The zero point and the span of the optional analogue output 0-2 V_{DC}, with refer to the display, is completely scalable.

A wide spectrum of progress connections are available on request. The housing can be rotated after loosening the lock-nut to allow easy viewing.

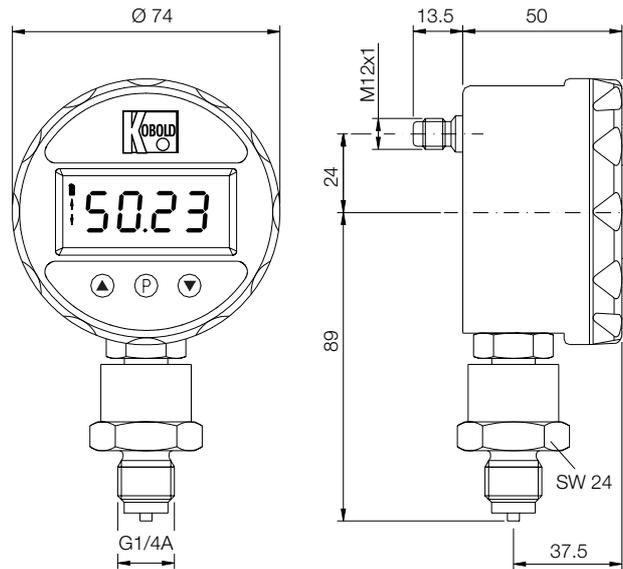
Areas of application

- Food and beverage industries (with diaphragm mounting)
- Process engineering
- Machine engineering
- Environmental engineering
- Hydraulic engineering

Technical Details

Model MAN-	SD10...	SD1S...	SD20...	SD2S...	SD30...	SD3S...	Option	
Version:		with min/max memory	with bi-stable relay	with relay and min/max memory	Analogue output	Analogue output a. min/max memory		
Analogue output:					0 - 2 V	0 - 2 V		
Meas. range:	-1 - 0 bar to 0 - 600 bar							1000 bar 1600 bar
Housing	74 mm, PA 6 GK 30, polyester-film							
Connection:	G 1/4 male (other connections upon request) stainless steel 1.4571							
Sensor:	Ceramic (Al ₂ O ₃)							
Case O-ring:	NBR							
Max. temperature:	Storage: -30...+60°C Medium: -30...+85°C Ambient: 0...+60°C							
Relative humidity:	< 90 %, non-condensing							
Pressure limits:	upto 40 bar: 3 x range 60 to 250 bar: 2 x range > 250 bar: 1.5 x range							
Accuracy class:	0.5							
Characteristic deviation:	≤ ±0.5 % f.s.							
Temperature coefficient:	Zero ≤ ±0.2 % f.s. / 10 K Span ≤ ±0.1 % f.s. / 10 K							
Conversion rate:	5 / s							
Automatic Switch off time:	2, 4, 8, 16, 32, 64 min. (not for analogue output and relay)							
Auxiliary power:	9 V battery							
Battery life:	5000 h (9 V battery 600 mAh) 10000 h (9 V lithium-battery 1200 mAh) (@ 5 conversions /s)							
Display:	4-digit LCD-display, 12.7 mm							
Output (option):	0 - 2 V _{DC} (load: ≥ 100 kΩ)							
Relay (option):	bi-stable N/O contact							
Peak memory (option):	Min.-Max.values displayed via key-pad							
Nominal load:	0.22 A / 230 V _{AC} ; 2 A / 30 V _{DC}							
max:	230 V _{AC} , 220 V _{DC}							
max. voltage:	2 A							
max. switching voltage:	30 V _{AC} / V _{DC} , 2 A							
Electrical connection:	M12x1 plug DIN							
Protection:	IP 65							

Dimensions



Order details (Example: MAN-SF26)

Model MAN-	SD10...	SD1S...	SD20...	SD2S...	SD30...	SD3S...
Version	Standard version	with min/max memory	with bi-stable relay	with relay and min/max memory	Analogue output	Analogue output a. min/max memory
Analogue output	without	without	without	without	0-2 V	0-2 V

Indicating range	Code
-1 to 0 bar	...A 315
-1 to +1.5 bar	...A 515
-1 to +3 bar	...A 525
-1 to +5 bar	...A 535
-1 to +9 bar	...A 545
-1 to +15 bar	...A 555

Indicating range	Code
0 to 0.6 bar	...B 015
0 to 1 bar	...B 025
0 to 1.6 bar	...B 035
0 to 2.5 bar	...B 045
0 to 4 bar	...B 055
0 to 6 bar	...B 065
0 to 10 bar	...B 075
0 to 16 bar	...B 085
0 to 25 bar	...B 095
0 to 40 bar	...B 105

Indicating range	Code
0 to 60 bar	...C 115
0 to 100 bar	...C 125
0 to 160 bar	...C 135
0 to 250 bar	...C 145
0 to 400 bar	...C 155
0 to 600 bar	...C 165

Higher measuring ranges upon request.

For Diaphragm Seals and Pressure Gauges model DRM please see pages 15-18.

For Pressure sensors...



...please refer to our brochure "P2"