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

Digital Manometer
Battery-Operated

measuring • monitoring • analysing

PDC

- Measuring ranges: 2 bar ... 700 bar
- Measuring accuracy: 0,5% of full scale
- p_{max}: 1000 bar; t_{max}: 100 °C
- Process connection: G¼ male, ¼" NPT male
- LCD and bar graph display incl. drag indicator function
- Tare function
- Password protection
- MIN/MAX memory

P1

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Description

The KOBOLD digital manometer PDC is the ideal solution for a local, mains-independent digital display. The integrated battery makes the measurement independent of a stationary power supply. Accuracy, reliability and mechanical stability under stress make the digital manometer suitable for pressure measuring tasks in many applications.

The graduated measuring ranges go from 2 bar to the highpressure range of 700 bar. The housing and wetted parts are made of stainless steel at pressure ranges >50 bar and thus resistant to chemically aggressive substances.

The bar graph display with drag indicator function additionally integrated in the display directly shows the tendency of the current working pressure. The extended version PDC-2 includes an additional 4 1⁄2-digit display for direct display of the functions MIN/MAX memory, tare function and other parameters independently of the main display. The background lighting of the extended version provides an optimum illumination of the display even in poor light conditions.

The programmable parameters are set using the front keys. The digital manometer meets the requirements of electromagnetic compatibility (EMC) according to EN 61326.

Fields of application and areas of use

- Mechanical engineering
- Plant construction, apparatus engineering
- Hydraulics, pneumatics
- Measuring equipment monitoring

Technical Details

Display:	7-segment LCD bar graph display 9999 digits, 11 mm high (PDC-1) 2 x 19999 digits, 11 / 7 mm (PDC-2) lighted (only PDC-2)
Accuracy:	0.5 % of full scale ± 1 digit
Stability by year:	≤ ± 0.2 % of full scale under reference conditions
Temperature compensated range:	0 .... 60 °C

Effect of temperature

• Zero point:	≤ ± 0.15% / 10 K
• Full measuring scale:	≤ ± 0.15% / 10 K
Conversion rate:	5 s-1
Memory:	MIN/MAX (non–volatile, even during change of battery)

Programmable parameters

• Measuring unit:	bar, PSI MPa selectable
• Tare (PDC-2 only):	≤ ± 20 % of full scale, settable
• Automatic switch-off time:	PDC-1: none PDC-2: settable

Temperature ranges

• Storage:	-20 ... 70 °C
• Sustance to me measured:	-30 ... 85 °C -30 ... 100 °C (at measuring ranges ≥ 100 bar)
• Ambient:	-10 ... 60 °C
• allowed rel. humidity:	< 90 %, non-condensing
Overload limit:	2 times, max. 1000 bar for measuring range C6 (600 bar) and CA (700 bar)
Housing:	stainless steel Option: black protective cap

Wetted parts

Measuring ranges ≤ 50 bar:	stainless steel, AL_2O_3, NBR (ceramic measuring cell)
Measuring ranges ≥ 100 bar:	stainless steel only (measuring cell for thin-film technology)
Pressure connection:	G ¼ B, ¼" NPT, stainless steel rotates by 300° (PDC-2 only)
Power supply:	2 x 1,5 V Mignon cell AA
Runtime:	4000 h (AA 2000 mAh)
Protection class:	IP 65
Weight:	approx. 0,4 kg

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Order Details (Example: **PDC-102R2 P02 A**)

Display	Switch-off time	Tare function	Connection		Measuring range	Options
			G¼	¼" NPT		
1-line	fixed	no	**PDC-102R2..**	**PDC-102N2..**	..**BF**.. = 0 - 2 bar rel. ..**BH**.. = 0 - 5 bar rel. ..**B7**.. = 0 - 10 bar rel. ..**BL**.. = 0 - 20 bar rel. ..**BN**.. = 0 - 50 bar rel.	..**A** = standard ..**D** = valve ..**G** = protective cap housing
2-line, lighted	settable	yes	**PDC-202R2..**	**PDC-202N2..**	..**C2**.. = 0 - 100 bar rel. ..**C3**.. = 0 - 160 bar rel. ..**C4**.. = 0 - 250 bar rel. ..**C5**.. = 0 - 400 bar rel. ..**C6**.. = 0 - 600 bar rel. ..**CA**.. = 0 - 700 bar rel.	

Dimensions [mm]