

All-purpose digital pressure gauge up to 1600bar

with 3-wire output 0...20mA or 0...10V, also for flush mounting and attachment mounting

Digital pressure gauges

Applications and features

- For direct pressure indication at the measuring point and simultaneous system controlling (electrical output signal, proportional to the value of the measured pressure)
- Extremely wide range of industrial applications for reading ranges from -100/0 mbar to 0/1600 bar
- Very high measurement accuracy: <0.3% of the span
- For relative pressure measurement, optionally also for absolute pressure measurement
- Rugged stainless steel bayonet housing for all-purpose applications in industrial environments
- Dust and water jet proof, for use in unprotected outdoor areas (IP65)
- Highly corrosion and chemical resistant measurement system made of CrNi steel, for gaseous and low-viscosity non-crystallising measuring media or measuring media not containing solid bodies
- !!! EN !!! Optional auch mit 2-Leiterausgangssignal 4...20mA
- !!! EN !!! Optional auch mit 3-Leiterausgangssignal 0...10V



Nominal size	Accuracy	Connection	Low radial	Lower back mount	Housing	Connection material
NS 100	<0.3% of span	G 1/2B	•	•	CrNi steel, 1.4301	CrNi steel 1.4571

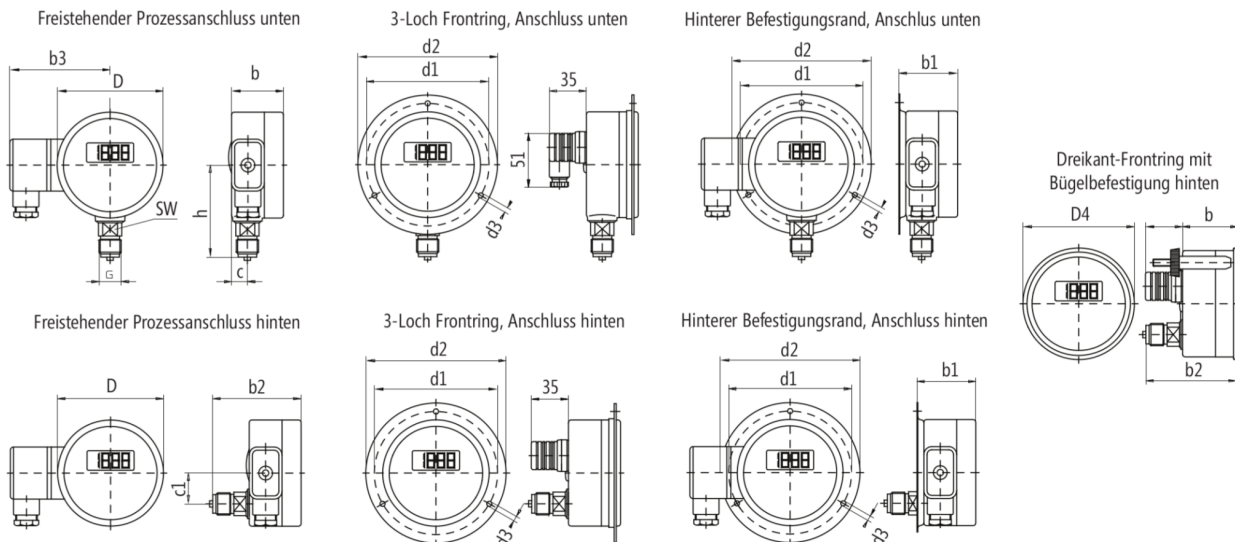
!!! EN !!! Anzeigebereiche - Rel.	!!! EN !!! Überlastgrenze (bar)	!!! EN !!! Anzeigebereiche - Rel.	!!! EN !!! Überlastgrenze (bar)
!!! EN !!! -0,1/0 bis -1/0	!!! EN !!! 2	!!! EN !!! 0/60	!!! EN !!! 108
!!! EN !!! 0/0,1 bis 0/1	!!! EN !!! 2	!!! EN !!! 0/100	!!! EN !!! 170
!!! EN !!! 0/1,6	!!! EN !!! 4	!!! EN !!! 0/160	!!! EN !!! 256
!!! EN !!! 0/2,5 bis 0/4	!!! EN !!! 9,2	!!! EN !!! 0/250	!!! EN !!! 400
!!! EN !!! 0/6	!!! EN !!! 13,8	!!! EN !!! 0/400	!!! EN !!! 600
!!! EN !!! 0/10	!!! EN !!! 23	!!! EN !!! 0/600	!!! EN !!! 840
!!! EN !!! 0/16	!!! EN !!! 36,8	!!! EN !!! 0/1000	!!! EN !!! 1400
!!! EN !!! 0/25	!!! EN !!! 57,5	!!! EN !!! 0/1600	!!! EN !!! 2080
!!! EN !!! 0/40	!!! EN !!! 80	!!! EN !!! 0/2500	!!! EN !!! 3000

Technical features		Technical features	
measuring rate	2.5 measurements / second	Scale ranges (positive overpressure)	0/100 mbar ... 0/1600 bar
response time	10ms	power input	!!! EN !!! 2,2 W
Accuracy	<0.3% of span (linearity+hysteresis+reproducibility)	Output signal	3-wire connection: 0...20mA
burden	RA (Ohm) = (Ub (V) - 17 V) / 0.02 A	socket	laterally or on the back side (with 3-hole front ring)
Temperature error (with +/- Tref)	!!! EN !!! max. 0,2% FS pro 10K	Measuring medium temperature	-20°C to +80°C
display	!!! EN !!! LCD-Anzeige; 14mm Ziffernhöhe	Ambient temperature	!!! EN !!! -20°C bis +50°C
Indicating points	!!! EN !!! 4,5 Stellen	Storage temperature	-30°C to +80°C
Sensing element	pressure measuring transducer	Sensor type	• !!! EN !!! < 25 bar, Edelstahl 1.4435, Messbrücke piezoresistiv • !!! EN !!! > 25 bar, Edelstahl 1.4568, Messbrücke Dünnschicht DMS
Energy supply	17...30 V (DC)	Housing type	Housing with bayonet catch
Scale ranges (negative overpressure)	-100/0 mbar ... -1/0 bar		

manometer - digital type series MA070



Technical features		Technical features	
Ingress protection of the housing	IP65 acc. to EN 60528 / IEC 529	!!! EN !!! Gewicht	!!! EN !!! ca. 700g
Type of mounting	stand-alone process connection	Sealing materials	Housing sealing: EPDM
Connection material	CrNi steel: 1.4571		
Window	Lexan (high-strength plastic glazing)		



!!! EN !!! Maße in mm Gewicht in kg

NG	b	b1	b2	b3	c	c1	D	d1	d2	d3	d4	G	h	SW
100	50	56	86,5	87	15	29	100,8	116	132	4,8	107	G1/2B	87	22

Options		Options	
Special threads, e.g. NPT, M12x1.5	from 1 pcs	3-hole front flange	from 1 pcs
Material test report 2.2 (EN 10204)	from 1 pcs	Mounting rim at the back	from 1 pcs
Material inspection certificate 3.1 (EN 10204)	from 1 pcs	Triangular front ring with bracket attachment on the backside	from 1 pcs
Factory calibration with inspection certificate 3.1 (EN 10204)	from 1 pcs	Measurement system for absolute pressure	from 1 pcs
Internationally recognised calibration (ÖKD)	from 1 pcs	!!! EN !!! Winkelstecker, IP 65, EN175301-803 Form A	from 1 pcs
Oxygen design, incl. certificate	from 1 pcs	!!! EN !!! Stromversorgung 9V Akku, ca. 300 Std. Lebensdauer bei LCD-Anzeige	from 1 pcs
Oil and grease free design incl. certificate	from 1 pcs	!!! EN !!! 2-Leiterausgangssignal 4...20mA	from 1 pcs
Indication accuracy class 0.1	from 1 pcs		
3-wire output signal 0...10V	from 1 pcs		

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