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Pressure: Pressure Gauges & Transmitters, Precision & High Pressure Regulators & I-P Converters, Volume boosters.

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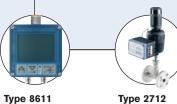




Pressure Transmitter

- Ceramic measurement cell
- Two-wire version
- Compact, stable construction for the highest operational reliability
- Media stop system if bursting pressure exceeded

Type 8314 can be combined with...



PI pressure controller

Type 2712 Globe control valve with SideControl

The compact Type 8314 pressure transmitter meets the highest requirements with regard to mechanical loading, EMC characteristics and operational reliability and is particularly suitable for demanding industrial applications.



Type 0911

Process indicator

General data				
Body material	Stainless steel 1.4305 AISI 303			
Wetted parts materials	Ceramics (Al ₂ O ₃), stainless steel 1.4305 (1.4404 AISI 316L on request), FKM seal, PPS			
Electrical connection	M12 x 1 plug			
Process connection	G 1/4" external to DIN 3852 Form E			
Installation	as required, preferably with pressure connection in downward position			
Measurement principle	Ceramic technology			
Measurement procedure	Relative pressure measurement			
Measuring range	0 up to 1, 4, 6, 10, 16, 40 or 100 bar (0 to 14.51, 58.04, 87.06, 145.1, 232.16, 580.4, 1451 PSI)			
Overload	3 x full scale at 0 4 bar 2.5 x full scale at 6 100 bar			
Bursting pressure	3 x full scale at 0 4 bar (0 58.04 PSI) 2.5 x full scale at 6 100 bar (87.06 1451 PSI) patented media stop system to prevent escape of media if the bursting pressure range is exceeded (≥ 4 bar (58.04 PSI) nominal pressure)			
Fluid temperature	-15 up to +125°C (5 to 257 °F)			
Accuracy	Sum of linearity, hysteresis and reproductibility: ≤ 0.3% of F.S.* Balancing accuracy of zero point and full scale: ≤ 0.3% of F.S.*			
Long term stability	0.5% of F.S. / 10 year			
Dynamic response	Suitable for static and dynamic measurements response time < 2 ms, typ. 1 ms			

^{*} F.S. = full scale



Electrical data			
Power supply (U) 8 up to 33 V DC, unregulated			
Output signal (two-wire)	Standard 4 up to 20 mA signal		
Load in Ω	< (U - 8 V) / 0.02 A		
Protected connection	Short-circuit proof & protected against reverse polarity		

Environment		
Ambient temperature	-15 up to + 85°C (5 to 185°F)	
Temperature coefficient	< 0.015% of F.S.* / C° (Tcoef. zero point and sensitivity)	

Standard and approvals			
Protection class IP67			
Interference emission	According to EN 50081-1 and EN 55022		
Interference stability	According to EN 50082-2		
Approval	UL certificate		

EMC acc. to harmonised standards for interference resistance EN 50082-2, IEC 61000-6-2 and EN 61326-1, interference radiation EN 50081-1, EN 55022, CISPR 22, EN 61326-1

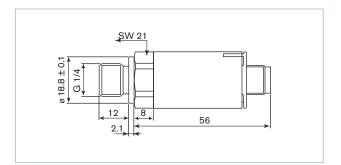
Interference stability	Test Norm / Test condition	Effects		
Electrostatic discharge	EN 61000-4-2	No effects		
ESD	15 kV air, 89 kV contact discharge			
High frequency electromagnetic irradiation	EN 61000-4-3	No effects		
	200 V/m, 80 100 MHz			
Line related high frequency coupling	EN 61000-4-6	No effects		
	30 V, 0.15 80 MHz			
Fast transients (Bursts)	EN 61000-4-4 / 4 kV	No effects		
Magnetic fields	EN 61000-4-8 / 30 A/m, 50 Hz	No effects		
Surge voltage	EN 61000-4-5 / Line-Line, Line-Case	No failure		
	500V, 12 Ohm, 9 μF			
	Radiometric Line-Line 500V, 2 Ohm, 18 μF			
Insulation voltage	500 V DC (optional 1000 V DC)	No effects		
	350 V AC (optional 700 V AC)			

Interference transmitted	Test standard / Test condition	Effects
Line - related interference	EN 55022	
Interference	0.15 30 MHz	No emission
Radiation from body	30 1000 MHz, 10 meter	No emission

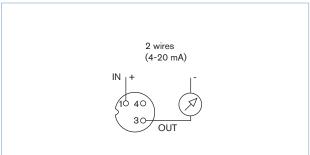
Test / Admissions	
Shock acc. IEC 28-2-27	75G, 11 ms half sine wave, all three directions. Free fall from 1 m on concrete (6x)
Constant shock acc. IEC 68-2-29	40G for 6 ms, 1000 x all three directions
Vibration acc. IEC 68-2-6	20G, 92000 Hz, 29 Hz with amplit. +/- 15 mm, 1 Octave/min all three directions, 50 constant load



Dimensions [mm]



Electrical connections



Ordering chart for transmitter Type 8314

Process	Pressure range [bar]	Power supply	Output signal	Electrical	Item no.
G 1/4"	0 - 1.00	8 - 33 V DC	420 mA	M12 x 1 plug	550 364
	0 - 4.00	8 - 33 V DC	420 mA	M12 x 1 plug	550 365
	0 - 6.00	8 - 33 V DC	420 mA	M12 x 1 plug	552 954
	0 - 10.0	8 - 33 V DC	420 mA	M12 x 1 plug	550 366
	0 - 16.0	8 - 33 V DC	420 mA	M12 x 1 plug	552 955
	0 - 40.0	8 - 33 V DC	420 mA	M12 x 1 plug	550 367
	0 - 100.0	8 - 33 V DC	420 mA	M12 x 1 plug	550 368

Further versions on request

Pressure

other measuring ranges

Port connection NPT 1/4"

Electrical connection connectors

Additional electrical outputs

Ordering chart accessories

Description	Item no.
5-pin M12 female cable connector with plastic threaded locking ring	917 116
5-pin M12 female connector moulded on cable (2 m, shielded)	438 680

*To find your nearest Bürkert facility, click on the orange box \rightarrow

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In case of special application conditions, please consult for advice.

Subject to alteration.
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