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Pressure Transmitter

- Ceramic/thick film measurement cell
- Two-wire version for 4... 20 mA output
- Compact, stable construction for the highest operational reliability

Type 8316 can be combined with...





Type 8802-GD Continuous SideControl system

The compact Type 8316 pressure transmitter meets the highest requirements with regard to mechanical loading, EMC characteristics and operational reliability and is particularly suitable for demanding industrial applications. For aggressive fluids against stainless steel the process connection in PVDF is available.



Type 8619 Multifunction transmitter/controlle

transmitter/controller				
General data				
Body material	Stainless steel 1.4404 (316L)			
Wetted parts materials	Ceramics (Al ₂ O ₃), stainless steel 1.4404, FKM seal (for pressure 0 - 100 bar, only stainless steel 1.4404, no FKM seal, no ceramics)			
Electrical connection	Round male connector M12x1			
Process connection	G 1/4" external to DIN 3852 Form E NPT 1/4" external			
Installation	As required, preferably with pressure connection in downward position			
Measurement technology	Ceramic or thick film			
Measurement procedure	Relative pressure measurement			
Measuring range	0 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, 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)			
Fluid temperature	-15 to +125°C (5 to 257°F)			
Accuracy	Sum of linearity, hysteresis and reproductibility, balancing accuracy of zero point and full scale: < 0.5% of F.S.*			
Resolution	0.1% of F.S.			
Dynamic response	Suitable for static and dynamic measurements response time < 2 ms, typ. 1 ms			

* F.S. = full scale

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Dimensions [mm]

Electrical data				
Electrical data				
Operating voltage (U)	7 to 33 V DC, unregulated			
Output signal	Standard 4 20 mA (two-wire) or 0 10 V DC (three-wire) signal			
Load in Ω	< (U - 7 V) / 0.02 A			
Protected connection	Short-circuit proof & protected against reverse polarity			
Environment				
Ambient temperature	-15 to + 85°C (5 to 185 °F)			
Temperature coefficient	< 0.2% of F.S.* / 10K			
Standard and approvals				
Protection class	IP67			
EMC	EN 61326-2-3			
Approval	CE; UL-Recognized for US and Canada (UL61010-1 + CAN/CSA-C22 No.61010-1)			
Test/Admissions				
Shock acc. EN 60068-2-27	25g, 6 ms half sine wave, all three directions.			
Drop test acc. EN 60068-2-23	from 1 m on concrete			
Vibration acc. EN 60770-1	50m/s, 10 1000 Hz, 1 Octave/min, 20 constant load per axis			



Ordering chart for pressure transmitter Type 8316

Process connection	Pressure range	Operating voltage	Output signal	Electrical connection	ltem no.
G 1/4"	0 - 1.00 bar	7 33 V DC	4 20 mA	M12 male connector	563 777
UL-Recognized for US and	0 - 4.00 bar	7 33 V DC	4 20 mA	M12 male connector	563 778
Canada 🔊 🔊 🖓 🛚 s	0 - 6.00 bar	7 33 V DC	4 20 mA	M12 male connector	563 779
	0 - 10.0 bar	7 33 V DC	4 20 mA	M12 male connector	563 780
			0 10 V DC	M12 male connector	563 784
	0 - 16.0 bar	7 33 V DC	4 20 mA	M12 male connector	563 781
	0 - 40.0 bar	7 33 V DC	4 20 mA	M12 male connector	563 782
	0 - 100.0 bar	7 33 V DC	4 20 mA	M12 male connector	563 783
NPT 1/4" UL-Recognized for US and Canada 🔊 🏎	0 - 60 PSI	7 33 V DC	4 20 mA	M12 male connector	564 466
	0 - 150 PSI	7 33 V DC	4 20 mA	M12 male connector	564 467
	0 - 300 PSI	7 33 V DC	4 20 mA	M12 male connector	564 468



EPDM seal, PVDF process connection

Ordering chart accessories

Description	ltem 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 office, click on the orange box ightarrow

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

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