

18.605 G

Submersible OEM-Pressure Transmitter

Applications

level measurement in water and fuel oil tanks

Characteristics

- ► piezoresistive stainless steel sensor
- accuracy 0.5 % span according to EN IEC 62828-2
- nominal pressure ranges from 0 ... 1 mH₂O up to 0 ... 10 mH₂O



Technical Data

Input pressure range						
Nominal pressure gauge	[bar]	0.1	0.25	0.4	0.6	1
Level	[mH ₂ O]	1	2.5	4	6	10
Overpressure	[bar]	1	1	1	3	3
Burst pressure ≥	[bar]	1.5	1.5	1.5	5	5
Vacuum resistance		unlimited				

Output signal / Supply									
Standard	2-wire: 4	20 mA	/ V _S = 8 32 V _{DC}						
Option 3-wire	3-wire: 0) 10 V	/ V _s = 14 30 V _{DC}						
	3-wire ratiometric: 1	0…90 % of $V_{\rm S}$	/ V _S = 2.75 V _{DC}						
Performance									
Accuracy ¹	$P_N > 160 \text{ mbar:} \le \pm 0.5 \%$	span	P _N ≤ 160 mbar: ≤ ± 1 % span						
Permissible load	2-wire: $R_{max} = [(V_s -$	- V _{S min}) / 0.02 A] g	2						
	3-wire: $R_{min} = 10 k\Omega$								
Influence effects	supply: 0.05 % span / 10 V								
	load: 0.05 % span / kΩ								
Response time	2-wire: ≤ 10 msec								
	3-wire: ≤ 3 msec								
Long term stability	± 0.2 % span / year at reference conditions								
Measuring range	kHz								
¹ accuracy according to EN IEC 62828-	2– limit point adjustment (non-lin	nearity, hysteresis, re	epeatability)						
Thermal effects (Offset and Span	n) / Permissible temperatu	res							
Thermal error	≤ ± 0.3 % span / 10 K in compensated range 0 70 °C								
Permissible temperatures	medium / electronics / environment / storage: -10 70 °C								
Electrical protection									
Short circuit protection	permanent	3-wire ration	netric: none						
Reverse polarity protection	no damage, but also no fur	nction							
Electromagnetic compatibility	Emission and immunity according to EN 61326								



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The company BD SENSORS s.r.o. is certified by Bureau Veritas Czech according to the standard ISO 9001.





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Ordering code OEM 18.605G																
23.08.202		M 18.605G			П	٦-٢	٦-٢	1-Г	-□	-П		-	П	-∏	-	
						┥┕	┥┕	1 -								
Input	[mH ₂ O]	[bar]														
	0 1	0 0,1			0											
	0 2,5	0 0,25		2 5 4 0	0											
	0 4 0 6	0 0,4		4 0 6 0												
	06	0 0,6 0 1		00		1										
Customer	010	01		1 0 9 9	9	2										
Pressure				5	191.	,										
in bar				_	_	E	;	_				_				
in m H₂O						Ν										
Customer						g										
Output							1									
4 20 mA / 2	2-wire						1									
0 10 V / 3-v	wire						3									
10 90 % Vs	s / 3-wire ratiome	tric (Vs = 2,7 5 V DC)					R									
Customer							9									
Accuracy																
0.5 % (P _N > 10								5								
1 % (P _N ≤ 160) mbar)							8								
Customer								9								
Electrical cor																
	tant) - default len								1							
	er) - optional lengt	'n							2 9							
Customer Cable length	_			-	-				9			-				
3 m (PVC)	_									0	0 3					
6 m (PVC)											0 6					
9 m (PVC)											09					
12 m (PVC)											1 2					
Customer (PU	JR)										9 9					
Mechanical c	connection															
G 1/4" DIN 38												3	00			
Open (without	t thread)											S	23 99			
Customer												9	99			
Seals																
Viton (FKM)														1		
Customer Special versi	00													9		
Standard															0 (
Customer															9 9	
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0,-...without additional charge

On request... in accordance with the producer

Surcharges for calibration are not subject to any discounts. Subject to change.

This document contains the specification for ordering the product;

detailed technical parameters of the product and its possible variants are given in the data sheet.

BD SENSORS reserves the right to change sensor specifications without further notice.



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