Hogller[®]

HOT – Industrial Pressure Transmitter

Description

The HOT is a high quality all stainless steel pressure transmitter, intended for use in the measurement of gases and liquids compatible with stainless steel. With additional EMI / RFI protection, low static and thermal errors and high resistance to shock and vibration as standard, the HOT assures trouble free operation at temperatures up to 125°C. The HOT Piezoresistive sensing element coupled with the latest ASIC circuitry, assures excellent accuracy, choice of high level outputs and long stability, protected within a rugged, stainless steel housing. The HOT high strength stainless steel construction contains no silicone oil and no internal O- rings. Measurements are available in gauge and absolute pressure, with ranges up to 1000 bar and are backed by a one-year warranty.



Features	Applications
 High strength, rugged stainless steel design Pressure Reference: Gauge Piezoresistive sensor High resistance to shock and vibration Pressure ranges: -1 60 bar, 0 1000 bar Signal output: 4 20 mA, 0 10 VDC, 0 5 VDC Accuracy @ RT: < 0.5 % FS Measuring medium: -40 +125 °C Electrical connections: DIN EN 175301-803 C Pressure connection: G 1/4" Male, 1/4" NPT Male IP 65 	 Water and Wastewater Industry HVAC & Refrigeration Mechanical engineering Machine building Process control and Automation Hydraulics and Pneumatics Pumps and Compressors Liquid level measurement Oxygen & Medical gases pressure measurement Harsh environments in the process industry

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Specifications							
Input Pressure Rar	nge						
Nominal Pressure	-1 60 bar, 0 1000 bar						
Overpressure [Max]	Up to 2x rated pressure						
Burst Pressure [Min]	Up to 5x rated pressure						
Vacuum resistance	YES						
Performance							
Accuracy @ RT	% of the range (gauge and vacuum sensors) < 0.5 BFSL ≤ 0.125	(incl. nonlinearity, hysteresis, repeatability, zero-offset and final offset acc. to IEC 61298-2)					
Non-linearity	% of the range ≤ 0.15						
Repeatability	% of the range ≤ 0.10						
Stability/year	% of the range ≤ 0.10						
Response time (10 90 %)	1 ms						
Pressure cycles	> 10 million						
Environment							
Temperature [°C]:							
Measuring medium	-40 +125						
Ambience	-40 +105						
Storage	-40 +125						
Compensated range	-20 +85						
Temperature coefficie	ent within the compensated range:						
Mean TC offset	% of the range ≤ 0,15 / 10K						
Mean TC range	% of the range \leq 0,15 / 10K						
Shock	1000 G, 11 msec., 1/2 Sine						
Vibration	25 G peak, 20 to 2000 Hz						
Ingress protection	IP 65						
Electronics							
Output	Supply						
4 20 mA	10 32 VDC						
0 5 VDC	10 32 VDC						
0 10 VDC	12 32 VDC						
Output impedance	< 100 Ω						
Current consumption	< 10 mA						
Reverse voltage protection	YES						
Mechanics	·						
Housing	Stainless steel 304						
Wetted parts material	Stainless steel 304						
Pressure port	Male - G 1/4", Male - 1/4" NPT						
· ·							

Miscellaneous	
Weight	Approx. 140 g
Mounting Force	Max 25 Nm
Calibration	Output is Calibrated at Zero & Full Scale

Wiring

Electrical Connection	Output	PIN 1	PIN 2	PIN 3	PIN 4	
	4–20 mA	+ Supply	Current Output -	urrent Output - N/A		earth
	0-10 VDC	+ Supply	- Supply	Output +	-	earth
DIN EN 803 175301-C	0-5 VDC	+ Supply	- Supply	Output +	-	earth

Dimensions



Ordering code

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НОТ						
Series						
HOT (Industrial Pressure Transmitter)						
HOF (Flush Diaphragm Pressure Transmitter)						
HOM (Low Pressure Transmitter)						
HOD (High Pressure Transmitter)						
HOX (Explosion Proof Pressure Transmitter)						
Output						
4 20 mA / 2-wire	Н					
4 20 mA / 2-wire / Compound	HC					
0 10 V / 3-wire	J					
0 10 V / 3-wire / Compound	JC					
0 5 V / 3-wire	F					
Pressure Range						
		Please check the				
		tables below				
Pressure Unit						
bar			F			
Кра			R			
psi			Р			
Pressure connection						
Male - NPT 1/4"				L		
Male - G 1"				N		
Male - G 1/2"				W		
Male - G 1/4"				G		
Male - M18×1.5"				М		
Electrical connection						
DIN EN 803-175301-C					С	
M12x1 4-pin					М	
Pressure type						
Gauge						К
Absolute						А
	1	1	1	1	1	

Gauge pressure								
Code	Measuring range [bar]	Code	Measuring range [bar]	Code	Measuring range [bar]	Code	Measuring range [bar]	
0000	10	0006	06	0030	0 30	0250	0 250	
0001	01	0007	0 7	0035	0 35	0300	0 300	
001.6	0 1.6	007.5	0 7.5	0040	0 40	0400	0 400	
002.5	0 2.5	0010	0 10	0060	0 60	0600	0 600	
0003	03	0013	0 13	0100	0 100	0700	0 700	
0004	0 4	0016	0 16	0160	0 160	0800	0 800	
0005	0 5	0025	0 25	0200	0 200	1000	0 1000	

Vacuum and +/- measuring range

Code	Measuring range [bar]	Code	Measuring range [bar]	Code	Measuring range [bar]	Code	Measuring range [bar]
000.0	-1 0	0004	-1 4	0010	-1 10	0040	-1 40
000.1	01	0005	-1 5	0016	-1 16	0060	-1 60
0001	-1 1	0006	-1 6	0025	-1 25	-	-
0003	-1 3	007.5	-1 7.5	0035	-1 35	-	-