Hogller[®]

HOF – Flush diaphragm Pressure Transmitter

Description

The HOF range of pressure sensors guarantee a wide application field in a high accuracy, rugged and compact design. The stainless steel membrane is completely vacuumsealed, extremely burst resistant and applicable for all standard media across hydraulics, pneumatics, environmental engineering, process technology, semiconductor technology and automotive engineering. As part of the stringent manufacturing process, all HOF pressure transmitters are individually pressure and temperature tested to conform to DIN EN ISO 9001:2008. With compensation and adjustment performed electronically these pressure transmitters are characterized by a very low total error and excellent long-term stability. With the precision of modern electronics, the measured data is captured and processed very accurately. With permanent magnets the zero point can be easily and securely adjusted at any time.



Features

- Flush mount stainless steel design
- Pressure Reference: Gauge
- High resistance to shock and vibration
- Programmable for zero point (offset)
- Pressure ranges: 0 ... 100 bar
- Signal output: 4 ... 20 mA
- High precision ≤ 0.35% BFSL
- Measuring medium: -20 ... +100 °C
- Electrical connections: DIN EN 175301-803 C
- Pressure connection: G 1/2" Male, G 1" Male

- **Applications**
- Media containing particulates
- Food and beverage industry
- Pump control
- Liquid level measurement
- Hydraulics
- Environmental engineering
- Machine tools
- Water treatment
- Process technology
- Semiconductor technology
- Automotive engineering

IP 65

Specifications

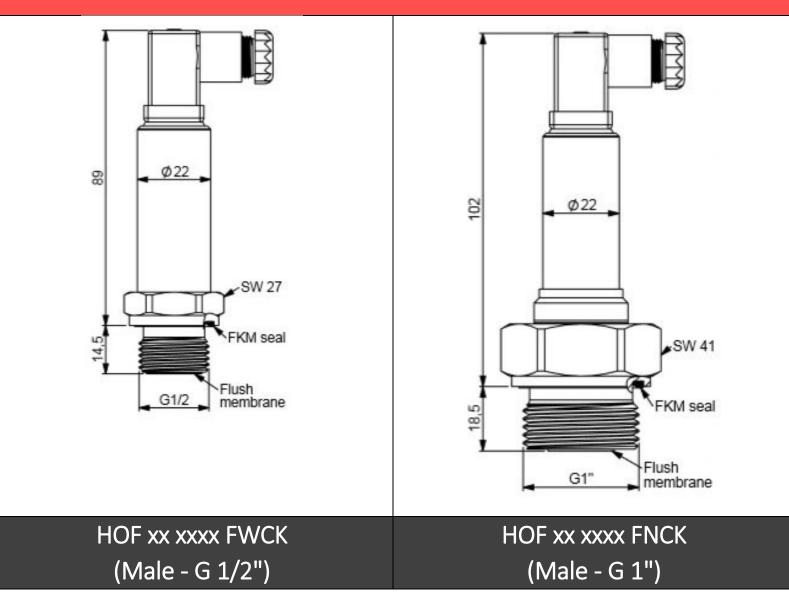
Input Pressure Range

input ressure hang	,C													
Nominal Pressure Gauge [bar]	0.25	0.4	0.6	1	1.6	2.5	4	6	10	16	25	100		
Overpressure [Max] [bar]	0.75	1.2	1.8	3	4.8	7.5	12	18	30	48	75	300		
Burst Pressure [Min] [bar]	1	1.6	2.4	4	6.4	10	16	24	40	64	100	400		
Kind of pressure	Gauge pressure													
Wetted parts	Stainless steel													
Supply voltage / Output	10 32 VDC → 4 20 mA													
Adjustability of zero	Straightforward zero correction by using a magnet													
	0.45 % FS limit point			(Incl	(Including zero point and full scale error, hysteresis, non-linearity									
Accuracy @ RT				and	and repeatability). Compensation measurement and adjustment									
	0.35 % FS BFSL			for v	ertical m	ounting	positior	1						
Non-linearity	0.1 % FS BFSL			Integ	gral linea	rity error	⁻ (FS = F	ull Scale	e. BFSL =	Best Fi	t Straigh	nt		
				Line)									
Long-term stability	0.1 % F	S		1-ye	1-year stability at reference conditions									
Repeatability	0.1 % F	S		r										
Permissible temperatures	Media temperature			-20 .	-20 +100									
[°C]:	Ambient temperature			-20 .	-20 +80									
	Storage temperature			-20 .	-20 +100									
Compensated range			-20 +80											
Tomporature coefficient.	Zero			0,15	0,15 % FS / 10K									
Temperature coefficient:	FS			0,15	0,15 % FS / 10K									
	Pressure equipment			2014	2014/68/EU									
CE-conformity	Directive													
	EMC directive			2014	2014/30/EU									
	Shock resistance		1000	1000 g According to IE				EC	C Mechanical					
							-2-27							
	Vibration resistance		20 g	20 g			According to IEC Resonance							
				60068-2-6										
Wiring protection	Overvo	tage		32 VDC										
	Short-circuit strength			Out	Out+/UB-(for 1s)									
	Reverse	Reverse polarity UB+/ UB-												
Pressure port	Male - G 1", Male - G 1/2"													
Weight	Approx. 140 g													
Mounting Force	Max. 45 Nm													
Calibration	Calibration Output is Calibrated at Zero & Full Scale													

Wiring
Electrical Connection

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

Dimensions



Ordering code

HOF						
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				
		Specifications table				
Pressure Unit						
bar			F			
Кра			R			
psi			Р			
Pressure connection						
Male - NPT 1/4"				L		
Male - G 1"				Ν		
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						Α

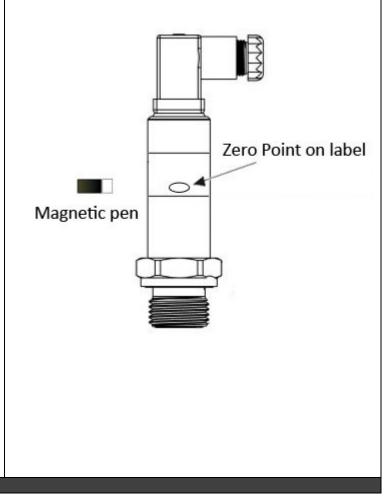
Installation

The zero can be set easily with a magnet within \pm 10 % of the nominal range

For zero point correction a permanent magnet is held to the marked position on the pressure transmitter for ½ to 2 ½ minutes after the power is turned on. The pressure applied at this time must be less than 12% of the nominal pressure range. This pressure value is saved as a new zero point. A magnetic field applied outside the time window does not affect the setting. This process can only be repeated after switching off and restarting the supply voltage.

Safety information

During installation. putting into service and operation of these pressure sensors. it is necessary to observe the relevant safety regulations that are in force in the country of the user (as for example. DIN VDE 0100).



Caution

Hogller Flush Diaphragm is a piezoresistive pressure sensor that is susceptible to damage. The sensor's diaphragm can be damaged in a number of ways, from scratching the surface to denting and puncturing. The key to avoid damaging the pressure sensor is to protect the diaphragm. Please do not drop, touch or bump the sensor.

Important Note

DAMAGED FLUSH DIAPHRAGM DUE TO MISHANDLING WILL NOT BE COVERED BY THE WARRANTY!