Hogller®

We Sense You Measure

HOF Series

Industrial Pressure Transmitter

Made in Germany

Up to 1000 Bar pressure range

High strength, rugged stainless steel design

Accuracy :0.35% BFSL @ RT

Nominal Pressure

from 0 ... 1000 bar

Output signals

2-wire: 4 ... 20 mA

3-wire: 0 ... 5 V / 0 ... 10 V others on request

Special characteristics

- ►*Flush mount stainless steel design*
- ►*Programmable for zero point (offset), characteristics and output options*
- ►*Wide choice of output signals*

The HOF range of pressure transmitters guarantee a wide application field in a high accuracy, robust and compact design. The stainless-steel membrane is completely vacuum-sealed, 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 transducers 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.

Application

- ***Plastic Machinery***
- ***Injection Molding***
- ***Fluid Pressure***
- ***Plastic Machinery***
- ***Water Purification***

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Industrial Pressure Transmitter — Technical Data

Input Pressure Range												
Nominal Pressure Gauge	(bar)	0.250	0.400	1.6	2.5	6	10	16	25	100	200	1000
Overpressure	(bar)	0.700	1.2	4.8	7.5	18	30	48	75	300	600	3000
Burst Pressure	(bar)	1	1.6	6.4	10	24	40	64	100	400	800	4000

Output Signal / Supply	
Standard	4-20mA / Vs : 10-32VDC
Optional: 3 wire	0-10V - 0-5V / Vs : 12-32VDC

Performance	
Accuracy	Standard 0.35% BFSL
Non-linearity	% of the range ≤ 0.10
Repeatability	% of the range ≤ 0.10
Stability / Year	% of the range ≤ 0.10
Response Time	10-90% t(ms)1
Pressure Cycle	> 10 Million

Environment	
Temperature [°C]:	Measuring medium -40...100 Ambience -40...80 Storage -40...100 Compensated range -20...85
Temperature coefficient within the compensated range:	Mean TC offset % of the range ≤ 0,15 / 10K Mean TC range % of the range ≤ 0,15 / 10K
Shock	1000 G, 11 msec., 1/2 Sine
Vibration	25 G Peak, 20 to 2000 Hz
Sealing	IP 66, Optional IP69K

Electronics	
Output Impedance	< 100 Ω
Current Consumption	< 10 mA
Reverse Voltage Protection	Yes

Mechanics	
Housing	304 stainless steel
Wetted parts	304 stainless steel
Pressure Port	See Select Table

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

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Technical Data

Ordering Information

HOT H 0004 F G C K

Model Name

HOT Series (Normal Pressure Transmitters)
HOX Series (Explosion Proof Pressure Transmitters)
HOF Series (Flush Diaphragm Pressure Transmitters)
HOM Series (Milli Bar Pressure Transmitters)
HOD Series (High Pressure , Pressure Transmitters)

Output

H : 2 Wire 4 ~ 20 MA
HC : 2 Wire 4 ~ 20 MA Compound
J : 3 Wire 0 ~ 10 V
JC : 3 Wire 0 ~ 10 V Compound
F : 3 Wire 0 ~ 5 V

Pressure Range

HOT Series : 0 ~ 600 Mbar , -1 ~ 1000 Bar
HOX Series : 0 ~ 2000 Bar
HOF Series : 0 ~ 200 Bar
HOM Series : 0 ~ 500 Mbar
HOD Series : 0 ~ 5000 Bar

Pressure Unit

F : BAR

Pressure Port

L : NPT 1/4"
W: G 1/2" (Flush Diaphragm)
G: G 1/4" (Normal Type)
M: M18x1.5" (High Pressure)
N: G 1" (Flush Diaphragm)

Connection Type

C : DIN EN 803 - 175301 Connector
M : M12 - 4Pin Female Connector

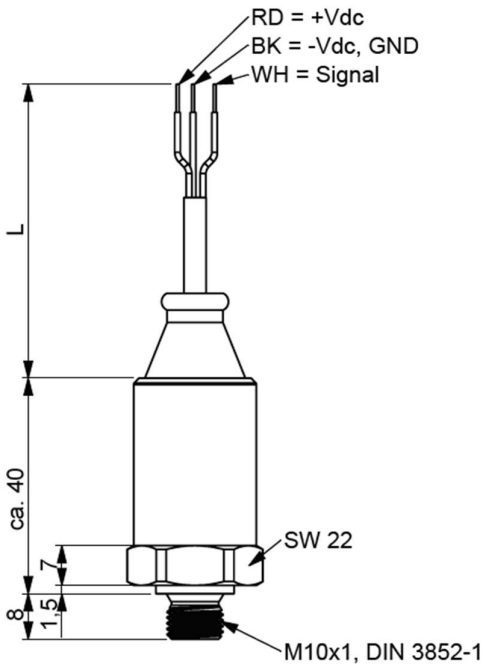
Type of Pressure Measurement

K : Gauge
A : Absolute

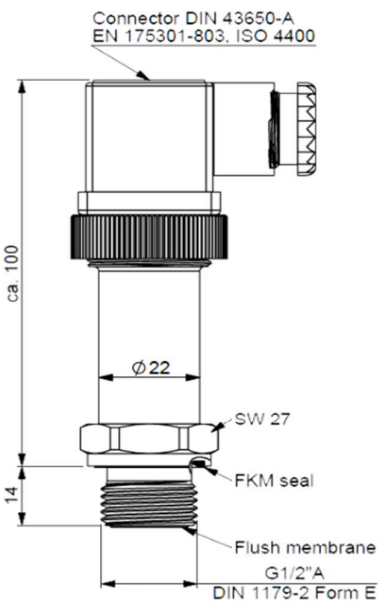
Dimensions

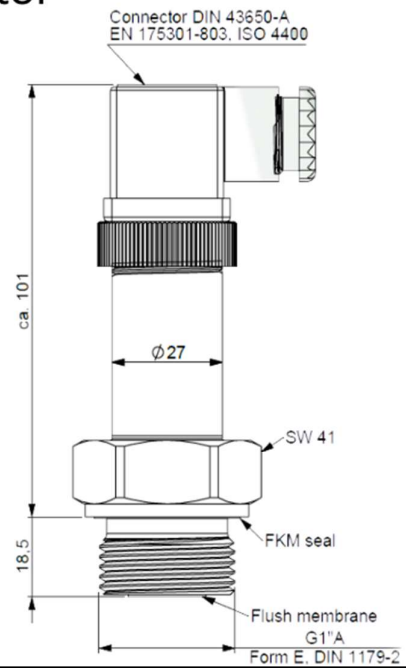
Gauge Pressure Dimension

Cable assembly



EN175301-803
Connector





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Wiring

Type	Output	PIN 1	PIN 2	PIN 3	PIN 4
 DIN EN 175301-8 03-A and C	0.5 - 4.5 V , 1 - 5 V , 0 - 10 V	+ Supply	- Supply	Output +	-
	4 .. 20 mA	+ Supply	Current Output -	N / A	-
	I²C	N / A	N / A	N / A	-
 Round connector M12x1 A	0.5 - 4.5 V , 1 - 5 V , 0 - 10 V	+ Supply	N / A	- Supply	Output +
	4 .. 20 mA	+ Supply	N / A	Current Output -	N / A
	I²C	1 | V +	2 | V -	3 | SCL	4 | SDA
	Output	PIN A	PIN B	PIN C	-
 Packard Metripac	0.5 - 4.5 V , 1 - 5 V , 0 - 10 V	- Supply	+ Supply	Output +	-
	4 .. 20 mA	Current Output -	+ Supply	N / A	-
	I²C	N / A	N / A	N / A	-
	Output	Red	Black	White	Green
Cable assembly	0.5 - 4.5 V , 1 - 5 V , 0 - 10 V	+ Supply	- Supply	Output +	-
	4 .. 20 mA	+ Supply	Current Output -	N / A	-
	I²C	V +	V -	SCL	SDA

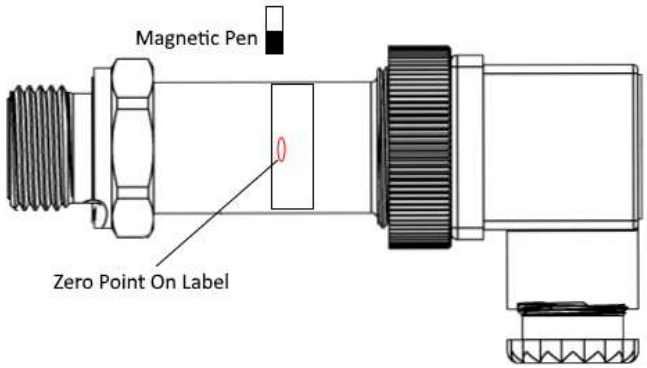
Installation

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

To correct the zero point. hold a permanent magnet a pin board magnet. for example, at the position marked on the pressure transmitter (i.e. a letter in a circle) for ½ to 2 ½ minutes after the power has been switched on. To correct the zero. atmospheric pressure is applied. Offsets for previously set values for initial and ultimate pressures will be corrected automatically by the device. A magnetic field applied outside of this time period has no effect on the setting. The power must be switched off and on before the zero point can be set again.

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 piezo resistive pressure sensor that is susceptible to damage.
The sensor's Diaphragm can be damage 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.
Do not drop, touch or bump the sensor.
Important Note: **DAMAGE FLUSH DIAPHRAGM DUE TO MISHANDLING.**
WILL NOT BE COVERED BY THE WARRANTY!

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