

EF0 Pressure transducer

Sputtered thin film strain gauges

Absolute or gauge pressure

Tough environments

Very reliable

Long term stability

EF0 : 3 mV/V (1 to 600 bar)
2.2 mV/V (for 1000 bar)

Operating temperature:
from cryogenic temperature to + 220°C



Technical Data (20°C)

Input voltage	10 Vdc (nominal) to 20 Vdc (max.)	Pressure port	G 1/4 female up to 400 bar AE 250C from 600 to 1000 bar
Input impedance	1300 Ω \pm 20%	Tightening torque	10 to 60 Nm (female G 1/4) 35 Nm (AE 250C)
Insulating resistance	100 M Ω / 100 Vdc at 25° C	Electrical connection	Six pins size 10 bayonet lock connector per MILC 26482G
Output signal	3 mV/Vdc \pm 10% typ (\pm 25% max.) from 1 to 600 bar 2.2 mV/V \pm 10% typ (\pm 25% max.) for M.R. 1000 bar	Weight	About 150 g
Output impedance	1250 Ω \pm 30%		
Initial zero offset (% F.S.)	\pm 1% typ (\pm 3% max.)		
Global error	\pm 0.2% F.S. typ (\pm 0.30% max.)		
Zero thermal shift	\pm 0.005% F.S. typ (\pm 0.01% F.S. max.)		
Span thermal drift	\pm 0.01% /°C (max)		
Long term stability (at 20°C, atmospheric pressure)	Zero: \pm 0.2% F.S. (typ) over 5 years \pm 0.5% F.S. (max.) over 5 years Span: \pm 0.1% F.S. (typ) over 5 years \pm 0.2% F.S. (max.) over 5 years		
Vibrations specifications (IEC 68-2-6)	20 g peak, from 5 to 2000 Hz		
Wetted parts	P \leq 6 bar : 15.5 PH steel + Hastelloy C276* P \leq 10 bar : 15.5 PH steel* Body 15.5 PH steel*		
Temperature ranges			
Operating	-55...+150°C (option from cryogenic T° to +220°C)		
Compensated	-30...+130°C		
Storage	-60...+150°C		
Shocks (IEC 68-227 test EA)	100 g - 6 msec - 1/2 sinus		
Tightness	IP 64 (gauge pressure) IP 65 (absolute pressure)		

* 15.5 PH steel : refined version of 17.4 PH.

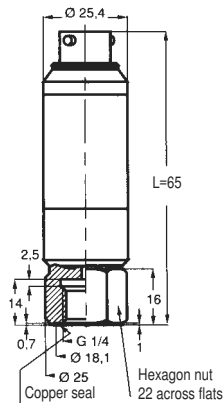
**BOURDON
HAENNI**

made to measure

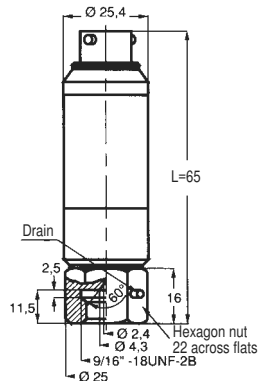


Dimensions (mm), electrical connections

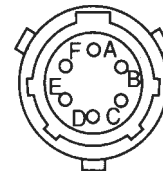
Measuring range
1 to 400 bar
female gas union G 1/4



Measuring range
600 to 1000 bar
250C type female adaptor
(Autoclave Engineers)



Electrical connection



Top view of adaptor base

EFO	
A	+ Supply
B	+ Measurement
C	- Measurement
D	- Supply
E	N.C.
F	N.C.

Options, measuring ranges

Cable (2m) + gland
Other pressure ports (see below)

	G1/4 female	250C female	M 14 x 1.5 male+female cone 60°	M 18 x 1.5 male	M 10 x 1 male	M 14 x 1.5 female	G1/2 male	Smooth* s.s. tube
Range (bar)	400	600/1000	400	400	400	400	400	100
Seal	copper 18 x 14.3 x 1.5	metal/metal	copper 18 x 14.3 x 1.5	22 x 18.3 x 1.5	8 x 4.2 x 1.5	18 x 14.3 x 1.5	per standard on tube	welding
L max.	65	90	105	110	105	90	107	-

* Ø 10 x 8, L = 50 mm

Selection table (bar)

Measuring range (M.R.)	1	1.6	2.5	4	6	10	16	25	40	60**	100**	160**	250**	400**	600**	1000**
Max. measurement range	1.2	1.92	3	4.8	7.2	12	19.2	30	48	72	120	192	300	480	660	1200
Max. overrange	2	3.2	5	8	12	20	32	50	80	120	200	320	500	800	1200	1200
Burst pressure	60	70	80	100	120	180	250	350	400	500	800	1000	1500	1800	3000	3000

** Absolute pressure only

Ordering Details - EFO

EFO1xxxx

Model	1'...3' digit
Standard	EFO
Output signal	4' digit
Low level	1
Pressure range	5'...7' digit
See codes in table	xxx
Pressure type	8' digit
Absolute	A
Gauge	R
Hydraulic connection	
M14 x 150 male (≤ 400 bar)	
M18 x 150 male (≤ 400 bar)	
7/16" 20 UNF-3A (≤ 400 bar)	
G 1/4 H (≤ 400 bar)	
M14 x 150 female (≤ 400 bar)	
9/16" 18 UNF-2B (600 and 1000 bar)	
Tube OD 10 x ID 8, L = 50 ; ≤ 100 bar)	
G 1/2 (≤ 400 bar)	
M10 x 100 male (≤ 400 bar)	

code	Range bar	
B15	0	+ 1
B16	0	+ 1.6
B18	0	+ 2.5
B19	0	+ 4
B20	0	+ 6
B22	0	+ 10
B24	0	+ 16
B26	0	+ 25
B27	0	+ 40
B29	0	+ 60**
B31	0	+ 100**
B33	0	+ 160**
B35	0	+ 250**
B38	0	+ 400**
B39	0	+ 600**
B41	0	+ 1000**

** Absolute pressure only