HEP-2
Miniature Pressure Sensor

HPE-2 is an ultra-miniature pressure transducer of 100% stainless steel welded construction. It is designed for severe environments where minimum size and light weight are required.
Multiple interfaces such as pressure ports and electrical outputs, connection thru cables or connectors have been designed to offer a wide range of adaptability to customer's standards.
HEP-2 have amplified output, 0-5VDC, 0-10VDC or 4-20 mA for use on vehicle, military, test equipment or on a test bench.



FEATURES

- Liquid and gas media compatible
- With Stainless Steel Variety of available pressure ports
- Variety of connector and cable outputs
- IP66 rating for absolute pressure reference

GREAT FOR

- Motorsports
- Downhole Exploration
- Off-Road Vehicles
- Pipeline pressure



Configurable Design

The HEP-2 is ideal for demanding industrial applications requiring high ruggedness and reliability. It offers flexible choices of thread sizes, pressure ranges (up to 10,000 psi), electrical connections (cable or connector), wetted materials, and output signals.

Hansensol provides semi-custom and fully custom designs based on volume and application needs.

Other unlisted configurations can also be achieved. Please feel free to inquire.

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SPECIFICATIONS

Performance

Accuracy*	⩽±0.25%FS BSFL
Stability (1 year)	⩽0.25%FS
Pressure Cycles	1×10^7
Proof Pressure	2X
Burst Pressure	3X (Max 20KPSI)

** Accuracy includes non-linearity, hysteresis and non-repeatability*

Thermal

Operating Temperature	-40···125℃
Media Temperature	-40···125℃
Storage Temperature	-40···125℃
Compensated Temperature	-20···85℃
TC Zero	⩽±1%FS
TC Span	⩽±1%FS

Enviromantal

Isolation (Body to any Lead)	> 100 MΩ@100VDC
EMI/RFI Protection	Yes
IP Rating:	IP65minimum
Vibration:	±20g,1Hz to 200Hz
Shock	50g,11msec,1/2sine

** IP Rating is dependent on electrical termination selected. Contact factory for more information.*

** IP Rating applies when electrical connector is attached with the appropriate ingress protection.*

Electrical (Current)

Outputs:	4···20mA
Excitation:	9-36V
Current Consumption:	< 10 mA
Output Load:	0···1350Ω
Frequency Response (min):	<3ms Without Snubber
Zero Offset (of FS):	⩽ ±0.5% typical
Span Tolerance (of FS):	⩽ ±0.5% typical

Electrical (Voltage)

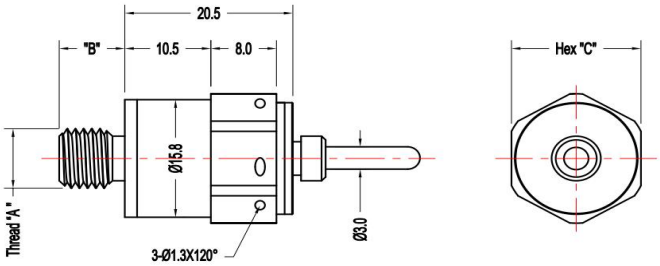
Outputs:	0-5V, 0.5-4.5V
Excitation:	13-36V
Current Consumption:	< 10 mA
Output Load:	> 100kΩ
Frequency Response (min):	<2ms Without Snubber
Zero Offset (of FS):	⩽ ±0.5% typical
Span Tolerance (of FS):	⩽ ±0.5% typical

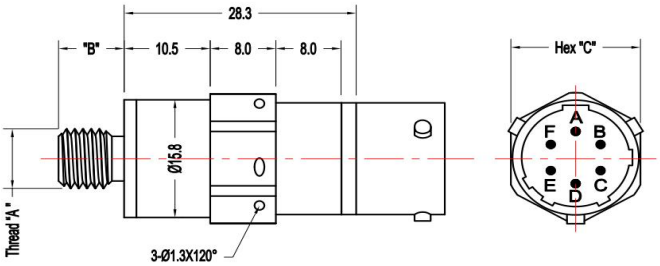
Outputs:	0.5-4.5V ratiometric
Excitation:	5V
Current Consumption:	< 10 mA
Output Load:	> 100kΩ
Frequency Response (min):	<2ms Without Snubber
Zero Offset (of FS):	⩽ ±0.5% typical
Span Tolerance (of FS):	⩽ ±0.5% typical

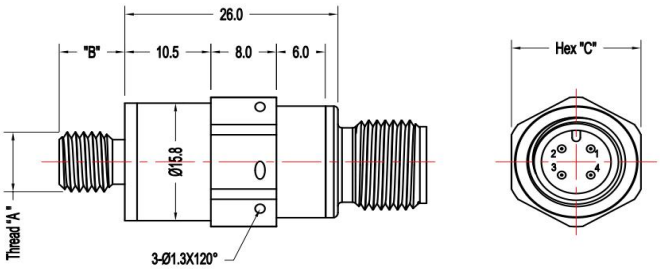
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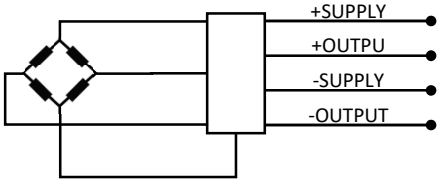






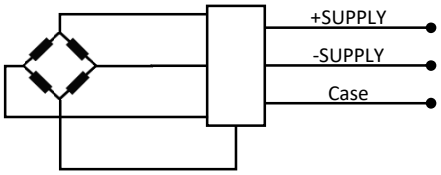
Code	"A"	"B"	HEX"C"	O-RING	INSTALLATION TORQUE
M5	M5X0.8	8.2	15.8	Ø3.5x1.5 FKM	1Nm (2Nm max.)
M8	M8X1	8.2	15.8	Ø6.07x1.78 FKM	2.5 Nm (5 Nm max.)
M10	M10X1	8.2	15.8	Ø7.65x1.63 FKM	3 Nm (6 Nm max.)
G2D	G1/4 DIN 3852	11.7	18	Not Supplied	5 Nm (10 Nm max.)
N2	1/4-18 NPT	14	18	Not Supplied	5 Nm (10 Nm max.)
U5	5/16-24 UNF-2A	8.2	15.8	Ø6.07x1.78 FKM	2.5 Nm (5 Nm max.)
U6	3/8-24 UNF-2A	8.2	15.8	Ø7.65x1.63 FKM	3 Nm (6 Nm max.)
U7	7/16-20 UNF-2A	8.2	18	Ø7.65x1.63 FKM	5 Nm (10 Nm max.)

VOLTAGE AMPLIFIED OUTPUT



Cable	M12	Bindex 6P
RE	1	A
BK	4	D
GN	2	B
WH	3	C

CURRENT AMPLIFIED OUTPUT



Cable	M12	Bindex 6P
RE	1	A
BK	2	D
	4	F

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Ordering Information

HEP-2	-	3	1	1	1	2	M10	-	010B	G	-	000

Output

1	0.5-4.5V RATIOMETRIC
3	4-20mA
4	0-5V
7	0.5-4.5V
X	Customer Special

Connection

1	Cable
4	M12
7	Bindex 6P
X	Customer Special

Material (Diaphragm+Screw)

3	316L
4	17-4PH+316L

Snubber

1	With Snubber
2	Without Snubber

Label

0	No
1	Adhesive
2	Lazer

Options

000	No Special Option

Pressure Type

G	Gauge
S	Sealed
C	Compound

Pressure Range+Unit

Code	PSI	Code	Bar
100P	0-100	007B	0-7
150P	0-150	010B	0-10
250P	0-250	016B	0-16
500P	0-500	035B	0-35
1000P	0-1000	070B	0-70
1500P	0-1500	100B	0-100
2250P	0-2250	150B	0-150
3000P	0-3000	200B	0-200
5000P	0-5000	350B	0-350
7500P	0-7500	500B	0-500
010KP	0-10000	700B	0-700

Pressure Port

M5	M5X0.8
M8	M8X1
M10	M10X1
G2D	G 1/4A (BSP)
N2	1/4-18 NPT
U5	5/16-24 UNF-2A
U6	3/8-24 UNF-2A
U7	7/16-20 UNF-2A
X	Customer Special

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