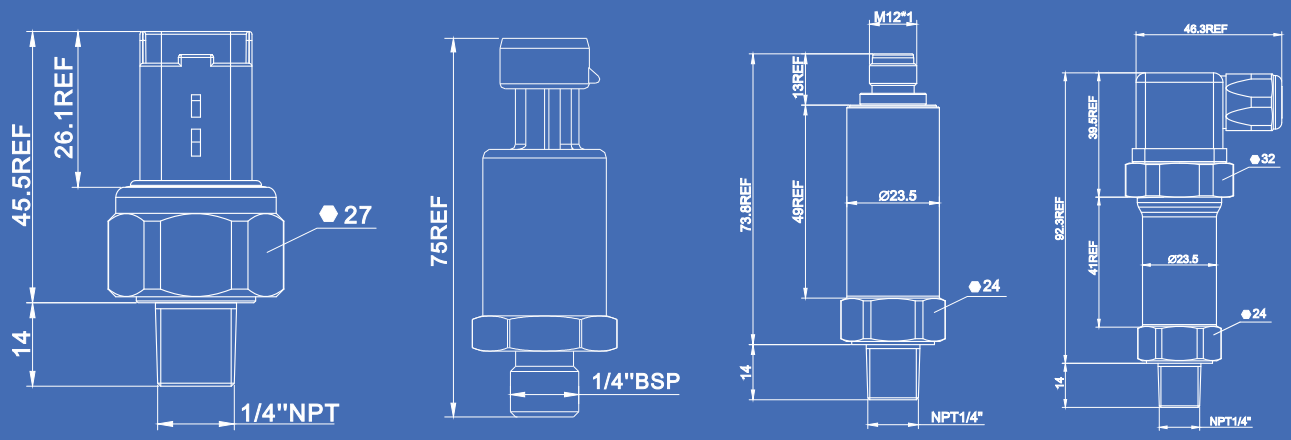
HUKETEK

沪科



Max pressure up to 2000bar

20 years of manufacturing experience

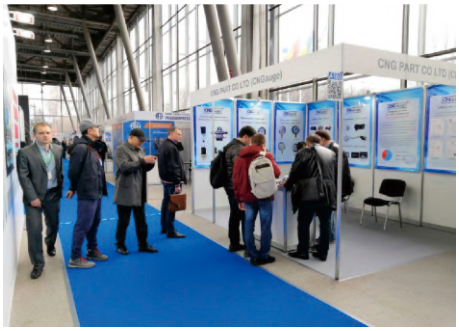
HUKETEK MFG CO LTD

HUKETEK is a leading technology manufacturer of pressure & temperature measuring instruments of more than 20 years, with two brands of HUKETEK and CNGauge.

We have well equipped internal laboratory, we can do most testings under necessary environments for our products.

We have strong R&D capacity, we can meet various requirements of our clients, supply both automotive / industrial grade products to worldwide.

H	Holistic 全面	Globe Market 全球市场
U	Unique 独特	Products Performance 产品性能
K	Knowledge 智慧	Smart Manufacturing 智能制造
E	Efficient 高效	Efficient Service 高效服务
TEK	Technology 科技	Technological Innovation 技术创新



Certifications

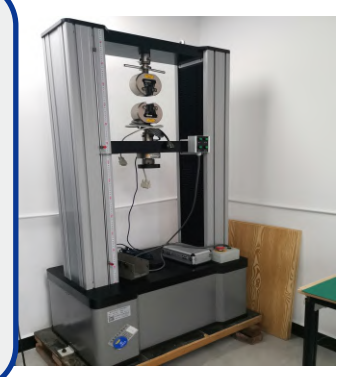
Partners

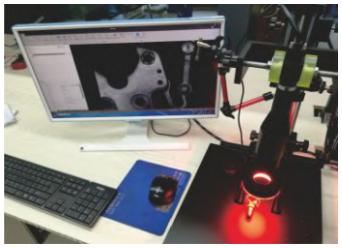
DIGITRONIC Smart Autogas Systems
KNC
TA
TATA
mazda
ITATRONIC LPG & CNG EQUIPMENTS
ВЗЛЕТ
LANDIRENZO
HYUNDAI
Mercedes-Benz









Internal R&D lab equipment

1,Metallographic microscope
2, Vibration test stand+pressure durability
3, High/low temperature test chamber
4, Metal composition measurement
5, Spring tester
6, Tensile tester
7, Salt spray tester
8, Quadratic measurement
9, Visual analysis research
10, Pressure durability tester

Index

Tips: How to choose a pressure sensor based on customer's needs?

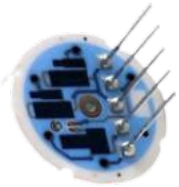
Tips 1、 If the customers requirements are clear and the type of pressure core can be determined, only the following basic parameters need to be determined to make a quotation:

1. Pressure range
2. Pressure type
3. Output type
4. Output characteristics
5. Power supply voltage
6. Electrical and process interface
7. Accuracy level
8. Process interface
9. External dimension adaptation

Tips 2、 If the customer is unable to clarify their needs and needs our suggestion to make a choice, in addition to the above basic parameters, the following information needs to be confirmed:

1. Medium
2. Working temperature
3. Operating conditions
4. Safety requirements, etc

Comparison of different sensor types:

No.	Sensor type	Picture	Pressure range	Characteristic
1	Ceramics		0-1...250bar	With competitive price & high stability average accuracy, can be used for corrosion-resistant medium.
2	Diffusion silicon		0-1...600bar	High cost, high-precision, overload resistant, the most versatile core with various interfaces and types.
3	Glass micro melting		0-20bar/ 0-2000bar	High safety, high overload, can be used for corrosion-resistant medium, but can't be used for the pressure below 20bar.
4	MEMS		0-...0.01~10bar	With low price, but can't be used for corrosion-resistant medium, and can only be used for the pressure below 10bar

PS0 MEMS Type - Automotive Class Pressure Sensor

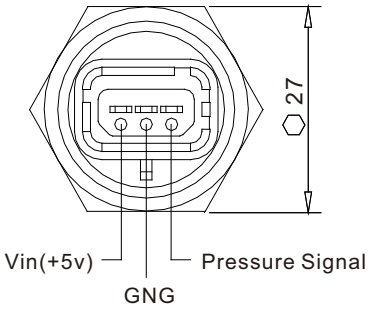
☆ PS0 series is a MEMS type sensor for gas, such as atmosphere, oxygen, CNG, LPG, LNG, etc.

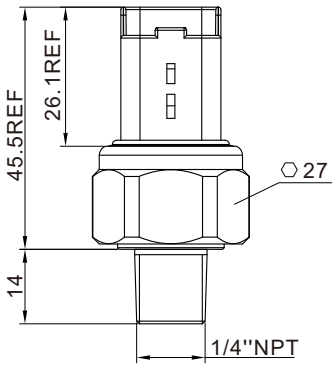
☆ Accuracy is up to 0.5%, pressure range from 0-0.25bar ~ 0-12bar(absolute pressure).

☆ Advantages: small volume, light weight, low power consumption, high reliability, high sensitivity, high durability(upto 1 million cycles).

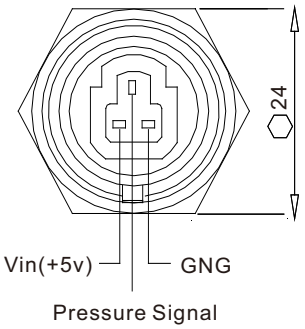
*All dimensions in MM.

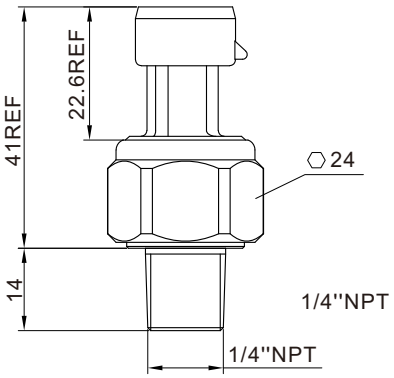
PS0xx-xxE-xx



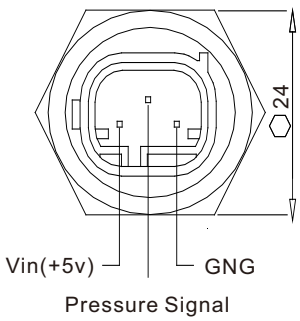


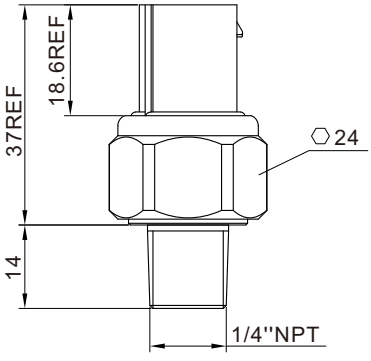
PS0xx-xxM-xx





PS0xx-xxN-xx





Specification

Sensor type	MEMS	**Pressure response time**	5ms
Default connector	N3 (mate with AMP 2-967642-1, Customizable)	**Burst pressure**	2X Absolute pressure
Thread size	M12x1.25(Customizable)	**Working temp**	-40~120℃
Protection	IP67	**Accuracy**	1.0%(0.5% available)
Temperature compensation		YES	

Code Identify

PS0A8-F4N-N4F

- A: Body type
- 8: Pressure (bar)
- F4: Signal type, none=default
- N: Connector
- N4: Thread and installation
- F: F=female, none=male

Thread and installation	
M124	M12x1.25,default
B4	1/4"BSP
B8	1/8"BSP
N4	1/4"NPT
N8	1/8"NPT

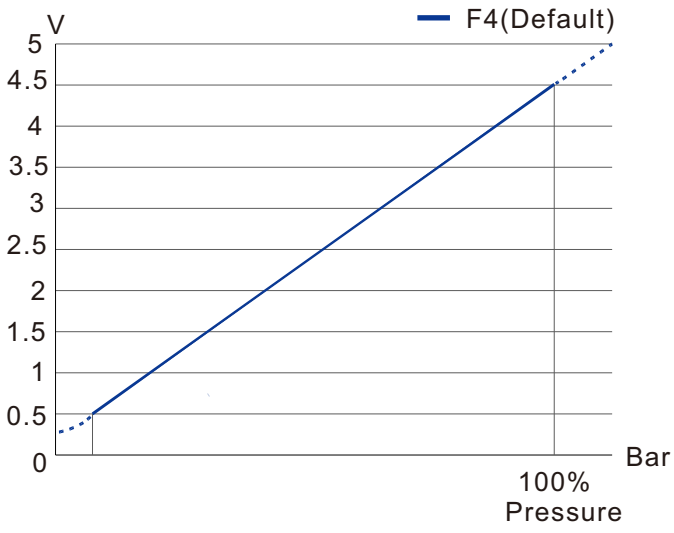
Body type	
A	SS304
B	SS316
C	SS316L
D	Brass
E	Aluminium

Pressure Range			
0.25	0-0.25bar	2.5	0-2.5bar
0.4	0-0.4bar	4.0	0-4.0bar
0.6	0-0.6bar	6.0	0-6.0bar
1.0	0-1.0bar	8.0	0-8.0bar
1.6	0-1.6bar	10.0	0-10.0bar
2.0	0-2.0bar	12.0	0-12.0bar

Connector	
N	Mate with AMP 2-967642-1
M	Mate with Delphi 12065287
E	Mate with FCI211PC032S0049, AMP 1801177-1

Output Types

Signal Type (Can be customized)		
Signal	Input	Output
F4 (Default)	5v	0bar/0.50v~F.S./4.50v
F5	5v	0bar/0.25v~F.S./4.15v
F6	5v	0bar/0.25v~F.S./4.75v
F7	5v	0bar/0.50v~F.S./4.41v
T4	9~24v	0bar/0.50v~F.S./4.50v
T5	9~24v	0bar/0.25v~F.S./4.15v
T6	9~24v	0bar/0.25v~F.S./4.75v
T7	9~24v	0bar/0.50v~F.S./4.41v



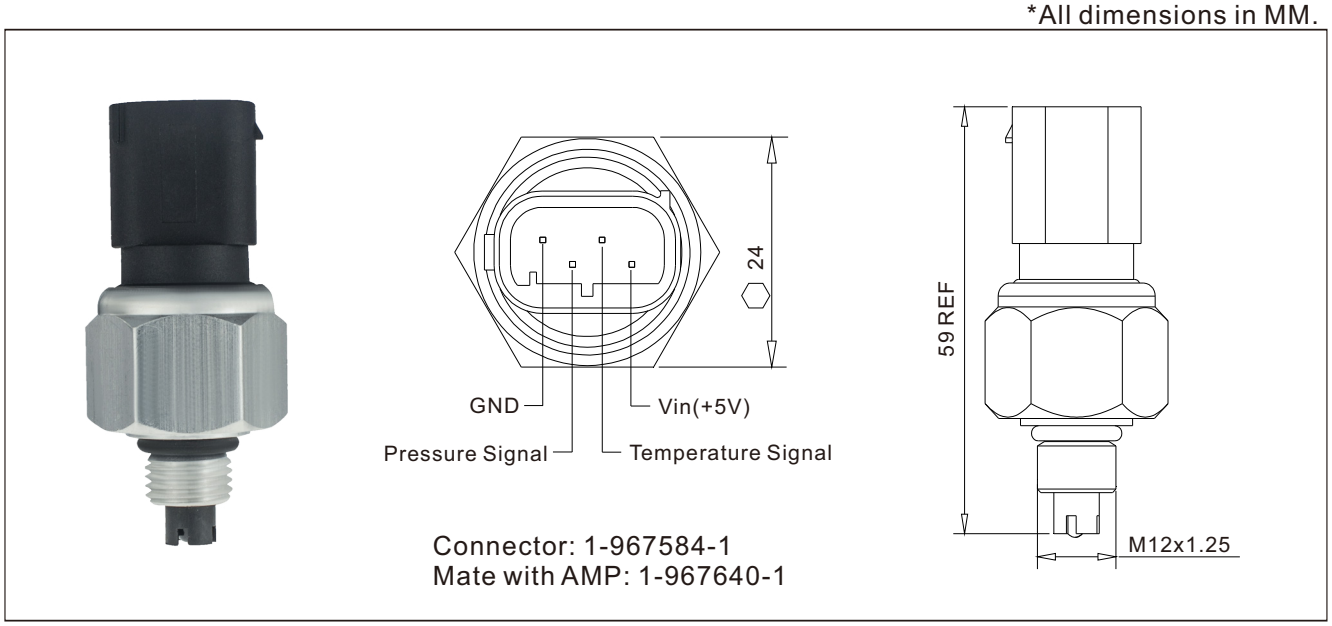
TPSXXC MEMS Type - Automotive Class Temperature + Pressure Sensor

☆ TPSXXC series is for testing of temperature and pressure.

☆ Pressure signal is made by a MEMS Sensor to provide pressure signal and temperature compensated.
Temperature signal is made by a NTC thermistance, which contact to gas directly and supply a fast response to the temperature.

☆ It has high durability (up to 1 million cycles), pressure range from 0/4bar ~ 0/12bar (absolute pressure)and can be applied to atmosphere, oxygen, CNG, LPG, LNG, etc.

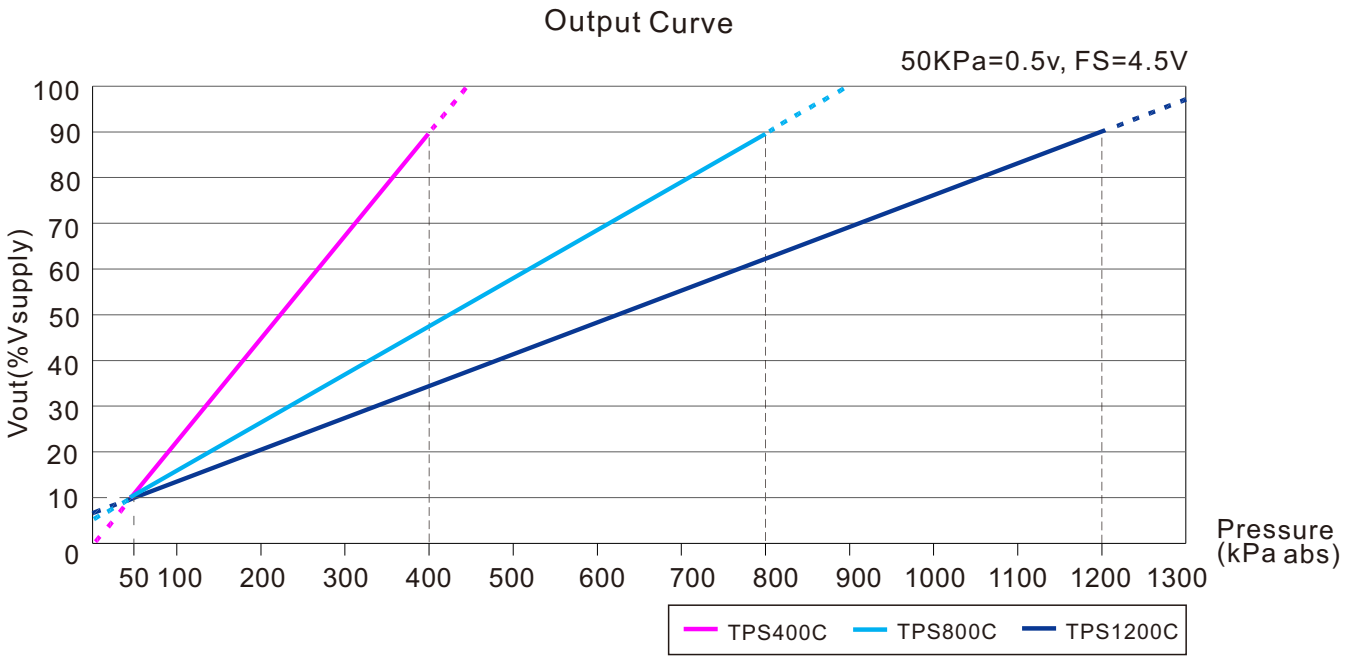
*All dimensions in MM.



Specification

Sensor type	MEMS	**Temperature sensor**	NTC resistance 10KΩ
Working pressure	0-4bar~0-12bar (Absolute Pressure)	**Working temp**	-40~120℃
Pressure response time	5ms	**Temperature response time**	2s
Default connector	C3 (mate with AMP 1-967640-1, Customizable)	**Burst pressure**	2X Absolute pressure
Thread size	M12x1.25(Customizable)	**Accuracy**	1%(0.5% available)
Body material	Aluminium	**Protection**	IP67
Temperature compensation		YES	

Output Types



Code Identify

TPSA 1200X-XX-XX

- TPSA: Body type
- 1200X: Pressure Range(kPa) (0-4bar ~ 0-12bar)
- X: Temperature Range
- XX: Thread and installation
- XX: Output Singal

Body type	
A	SS304
B	SS316
C	SS316L
D	Brass
E	Aluminium

Thread and installation	
M124	M12*1.25, default
B4	1/4"BSP
B8	1/8"BSP
M123	M12*1

Temperature / Resistance (KΩ)

T(℃)	Output	T(℃)	Output	T(℃)	Output	T(℃)	Output
-30	181.70	10	19.9576	50	3.5882	90	0.9069
-25	133.50	15	15.7398	55	2.9704	95	0.7787
-20	98.4699	20	12.503	60	2.472	100	0.6712
-15	73.7843	25	10	65	2.0677	105	0.606
-10	55.8289	30	8.0504	70	1.7379	110	0.529
-5	42.6305	35	6.5213	75	1.4675	115	0.463
0	32.8352	40	5.314	80	1.2447	120	0.407
5	25.4973	45	4.3549	85	0.0603		

Type: 10kΩ B25/50:3950

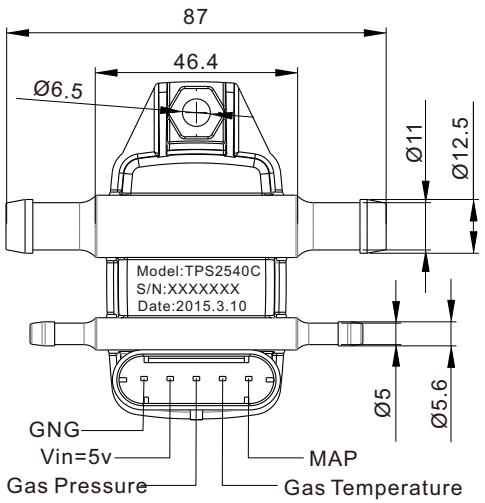
TPS2540C MEMS Type - Automotive Class Temperature + Pressure + Map Sensor

☆ TPS2540C series is the sensor combined with gas temperature, gas pressure and MAP.

☆ Pressure and MAP signal is made by MEMS sensor circuitry and thin film resistor networks to provide a high output signal and temperature compensated.

☆ Temperature signal is made by a NTC thermistance.

*All dimensions in MM.

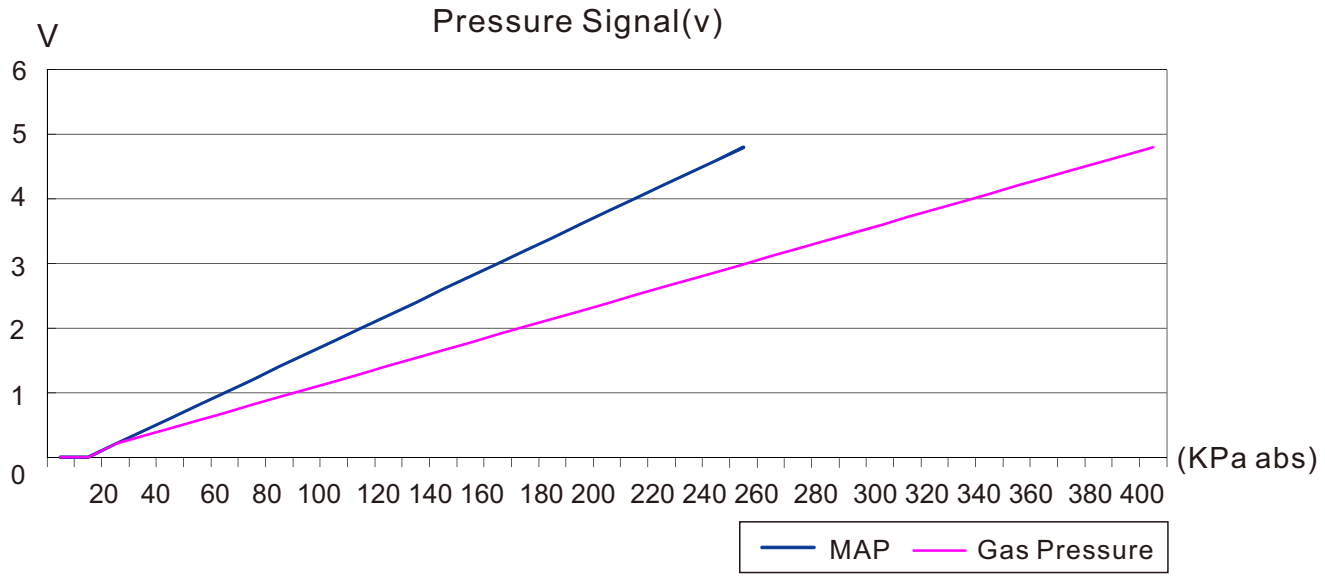


Specification

Gas Pressure	Leakage testing pressure	520kPa
	Testing pressure	0-400kPa
	Working pressure	0-400kPa (Absolute Pressure)
	Burst pressure	1600kPa
	Pressure response time	5ms
MAP	Leakage testing pressure	330kPa
	Testing pressure	0-250kPa
	Working pressure	0-250kPa (Absolute Pressure)
	Burst pressure	1000kPa
	Pressure response time	5ms
Temperature	Temperature signal type	NTC resistance 10KΩ

Output Types

Signal Code	Input Volt	Output Formular	Output Description
MAP	5v	Vout=Vin(5v)*0.0040*P(kPa)-0.040)	20kPa=0.2v, 100kPa=1.8v, 250kPa=4.8v
Gas Pressure	5v	Vout=Vin(5v)*(0.002421*P(kPa)-0.00842)	20kPa=0.2v, 200kPa=2.38v, 400kPa=4.8v



Temperature / Resistance (KΩ)							
T(℃)	Output		T(℃)	Output		T(℃)	Output
-40	401.860		15	15.837		70	1.760
-35	281.577		20	12.535		75	1.492
-30	200.204		25	10.000		80	1.270
-25	144.317		30	8.037		85	1.087
-20	105.385		35	6.506		90	0.934
-15	77.898		40	5.301		95	0.805
-10	58.246		45	4.348		100	0.698
-5	44.026		50	3.588		105	0.606
0	33.621		55	2.978		110	0.529
5	25.925		60	2.486		115	0.463
10	20.175		65	2.086		120	0.407

Default=10KΩ B25/50:3950

Customization:

1) different temperature signal available;
2) temperature response time of 2s available by MOQ 3000pcs.

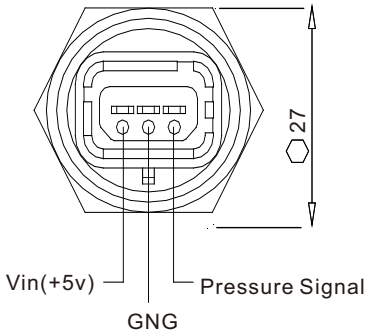
PS1 Ceramic Type - Automotive Class Pressure Sensor

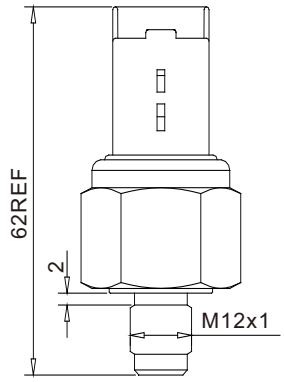
☆ PS1 series is ceramic type pressure sensor, and to check the pressure of most media of gas and fluid.Such as automobile, aerospace, machinery, industry, chemical industry, medical, etc.

☆ Accuracy is up to 0.5%, pressure range from vac~0bar up to 0~250bar with high reliability.

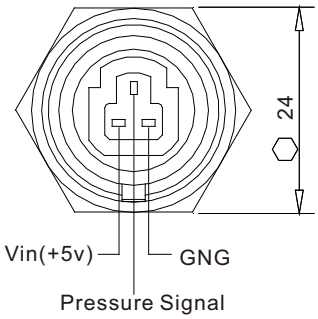
*All dimensions in MM.

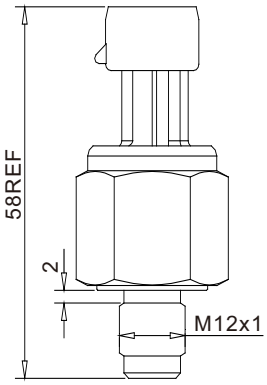
PS1xx-xxE-xx



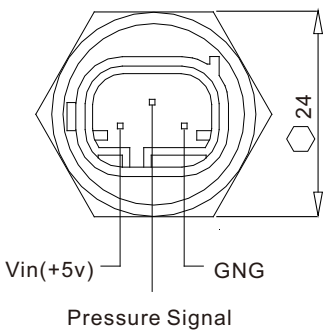


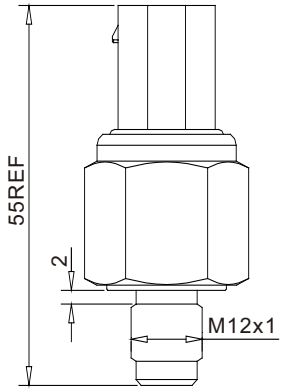
PS1xx-xxM-xx





PS1xx-xxN-xx





Specification

Sensor type	Ceramic	**Pressure response time**	5ms
Default connector	N3 (mate with AMP 2-967642-1, Customizable)	**Burst pressure**	1.5~4X pressure
Thread size	M12x1(Customizable)	**Working temp**	-40~120℃
Protection	IP67	**Accuracy**	1.0%(0.5% available)
Temperature compensation		Yes	

Code Identify

PS1A6-F4N-N4F

- A — Body type
- 6 — Pressure (bar)
- F4 — Signal type, none=default
- N — Connector
- N4 — Thread and installation
- F — F=female, none=male

Thread and installation			
M123	M12x1,default		
B4	1/4"BSP	N4	1/4"NPT
B8	1/8"BSP	N8	1/8"NPT

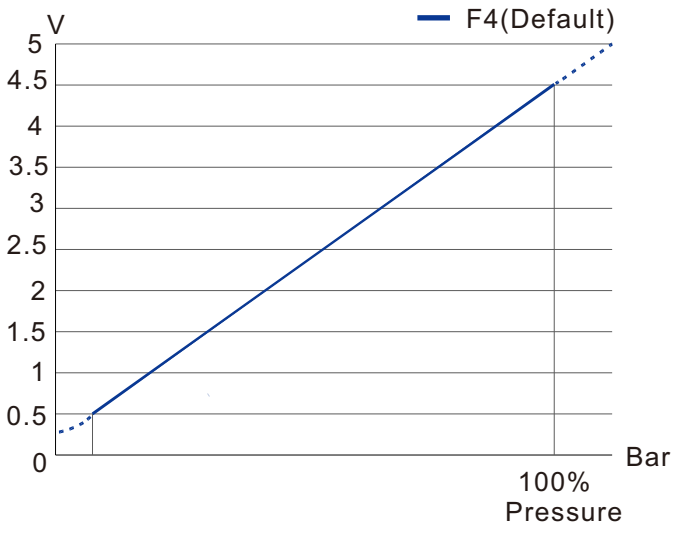
Connector	
N	Mate with AMP 2-967642-1
M	Mate with Delphi 12065287
E	Mate with FC1211PC032S0049, AMP 1801177-1

Body type	
A	SS304
B	SS316
C	SS316L
D	Brass
E	Aluminium

Pressure Range							
V	-1-0bar	2.5	0-2.5bar	25	0-25bar	250	0-250bar
0.4	0-0.4bar	4	0-4bar	40	0-40bar		
0.6	0-0.6bar	6	0-6bar	60	0-60bar		
1	0-1.0bar	10	0-10bar	100	0-100bar		
1.6	0-1.6bar	16	0-16bar	160	0-160bar		

Output Types

Signal Type (Can be customized)		
Signal	Input	Output
F4 (Default)	5v	0bar/0.50v~F.S./4.50v
F5	5v	0bar/0.25v~F.S./4.15v
F6	5v	0bar/0.25v~F.S./4.75v
F7	5v	0bar/0.50v~F.S./4.41v
T4	9~24v	0bar/0.50v~F.S./4.50v
T5	9~24v	0bar/0.25v~F.S./4.15v
T6	9~24v	0bar/0.25v~F.S./4.75v
T7	9~24v	0bar/0.50v~F.S./4.41v



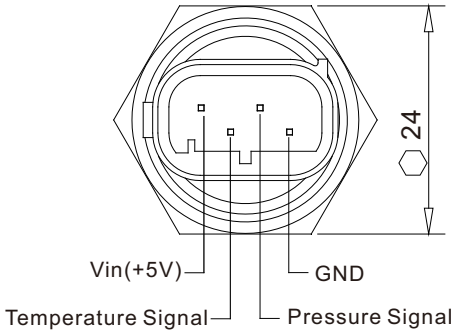
TPC Ceramic Type - Automotive Class Temperature + Pressure Sensor

☆ TPC series is ceramic and NTC thermistor type sensor.

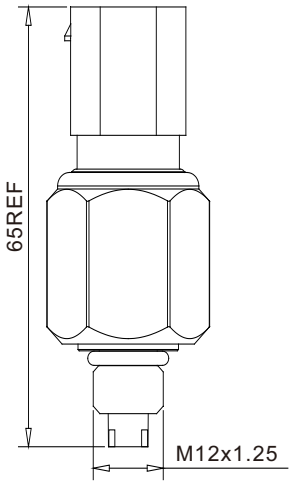
☆ The temperature accuracy is 1%, and temperature range -40~120℃.
The pressure standard accuracy is 1%(0.5% available), and pressure range is from 0~200kPa to 0~6000kPa.

☆ TPC series has high reliability, can accurately detect the pressure and temperature of CNG, LPG, LNG, and other gases or other fluids at the same time. Furthermore, it is widely used in automobiles, aerospace, machinery, industry, chemical industry, medical treatment and etc.

*All dimensions in MM.



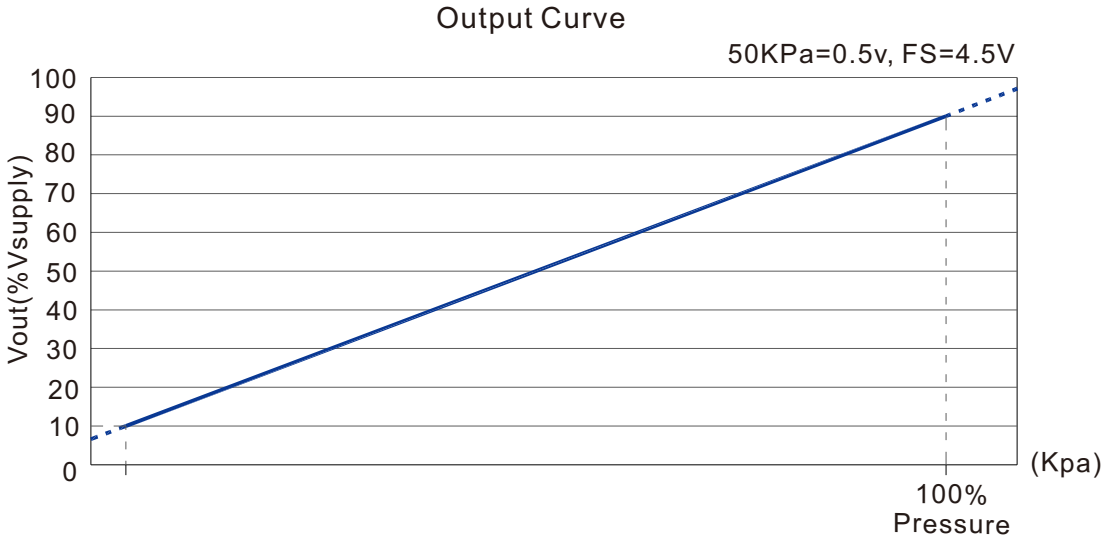
Connector: 1-967584-1
Mate with AMP: 1-967640-1



Specification

Sensor type	Ceramic+NTC Thermistor 10KΩ	**Pressure response time**	5ms
Default connector	C4 (1-967584-1, Mate with AMP 1-967640-1)	**Temperature response time**	2s
Thread size	M12x1.25(Customizable)	**Working temp**	-40~120℃
Burst pressure	1.5~4X pressure	**Pressure accuracy**	1.0%(0.5% available)
Protection	IP67	**Temperature accuracy**	1%
Temperature compensation		YES	

Output Types



Code Identify

TPCA800X-M12-XX

- Output Singal
- Thread and installation
- Temperature Range
- Pressure (kPa)
- Body type

Body type	
A	SS304
B	SS316
C	SS316L
D	Brass
E	Aluminium

Pressure Range	
200	0-200kPa
400	0-400kPa
800	0-800kPa
1000	0-1000kPa
6000	0-6000kPa

Thread and installation	
M124	M12*1.25,default
B4	1/4"BSP
B8	1/8"BSP
N4	1/4"NPT
N8	1/8"NPT

Temperature / Resistance (KΩ)

T(℃)	Output	T(℃)	Output	T(℃)	Output	T(℃)	Output
-30	181.70	10	19.9576	50	3.5882	90	0.9069
-25	133.50	15	15.7398	55	2.9704	95	0.7787
-20	98.4699	20	12.503	60	2.472	100	0.6712
-15	73.7843	25	10	65	2.0677	105	0.606
-10	55.8289	30	8.0504	70	1.7379	110	0.529
-5	42.6305	35	6.5213	75	1.4675	115	0.463
0	32.8352	40	5.314	80	1.2447	120	0.407
5	25.4973	45	4.3549	85	0.0603		

Type: 10kΩ B25/50:3950

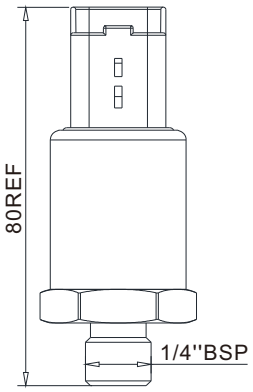
PS3 Glass Microfusion Type - Automotive Class Pressure Sensor

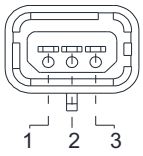
☆ PS3 series pressure sensor use glass microfusion chip(integral design),stainless steel body, no risk of leakage, compact and reliable, strong overload capacity, good long-term stability. It can be used to detect the pressure of most gases and liquids, such as atmosphere, oxygen, CNG, LPG, LNG, water, oil, etc.

☆ The pressure range can be from 0 to 2000bar (absolute pressure), and the accuracy can reach ±0.5%. It can realize remote data transmission, and can provide a variety of process connection methods according to customer's requirements.

*All dimensions in MM.

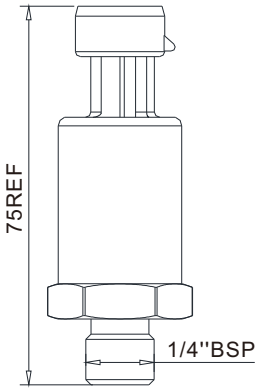
PS3xx-xxE-xx

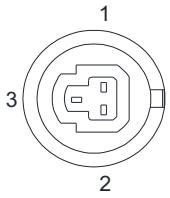




PIN#	F4(0.5~4.5V)
1	Vin(+5V)
2	GND
3	Signal

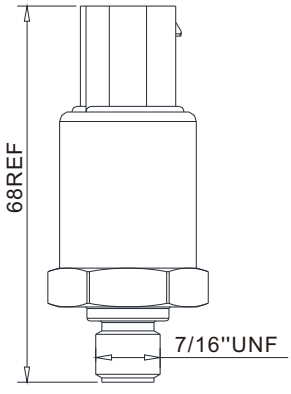
PS3xx-xxM-xx

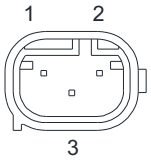




PIN#	F4(0.5~4.5V)
1	GND
2	Vin(+5V)
3	Signal

PS3xx-xxN-xx



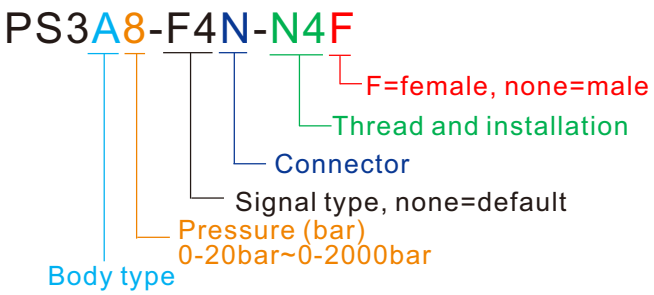


PIN#	F4(0.5~4.5V)
1	GND
2	Vin(+5V)
3	Signal

Specification

Sensor type	Glass Microfusion Type	**Pressure response time**	1ms
Default connector	N3 (mate with AMP 2-967642-1, Customizable)	**Pressure range**	0-20bar~0-2000bar
Default Thread	1/4"BSP(Customizable)	**Working temp**	-40~120℃
Protection	IP67	**Accuracy**	1.0%(0.5% available)
Insulation	›100 MΩ @ 50V	**Temperature compensation**	YES

Code Identify



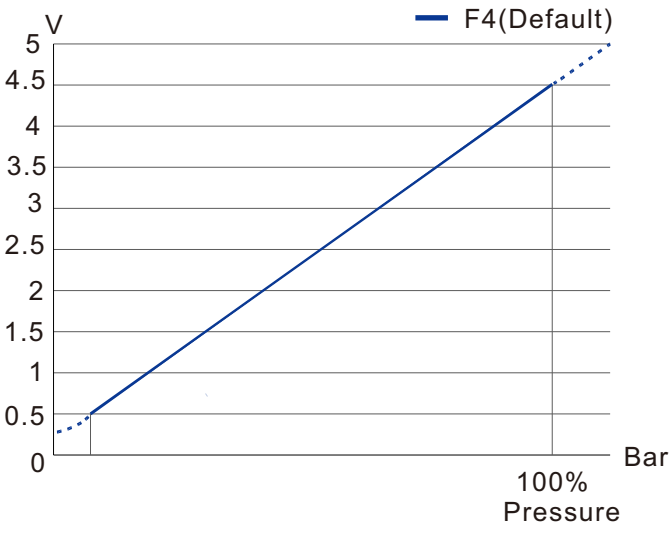
Body type	
A	SS304
B	SS316
C	SS316L

Connector	
N	Mate with AMP 2-967642-1
M	Mate with Delphi 12065287
E	Mate with FCI211PC032S0049,AMP 1801177-1

Thread and installation	
B4	1/4"BSP, Default
B8	1/8"BSP
N4	1/4"NPT
N8	1/8"NPT

Output Types

Signal Type (Can be customized)		
Signal	Input	Output
F4 (Default)	5v	0bar/0.50v~F.S./4.50v
F5	5v	0bar/0.25v~F.S./4.15v
F6	5v	0bar/0.25v~F.S./4.75v
F7	5v	0bar/0.50v~F.S./4.41v
T4	9~24v	0bar/0.50v~F.S./4.50v
T5	9~24v	0bar/0.25v~F.S./4.15v
T6	9~24v	0bar/0.25v~F.S./4.75v
T7	9~24v	0bar/0.50v~F.S./4.41v



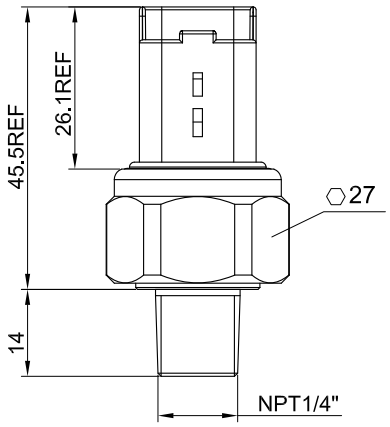
PS7 Ceramic Capacitors Type - Automotive Class Pressure Sensor

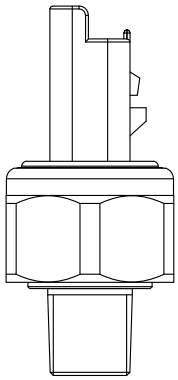
☆ Ceramic capacitive pressure sensor, which has the characteristics of corrosion resistance, impact resistance, high stability and small hysteresis.

☆ Widely used in air, engine oil, brake fluid, gasoline, diesel, air-conditioning refrigerant, etc. (the working medium cannot contain water)

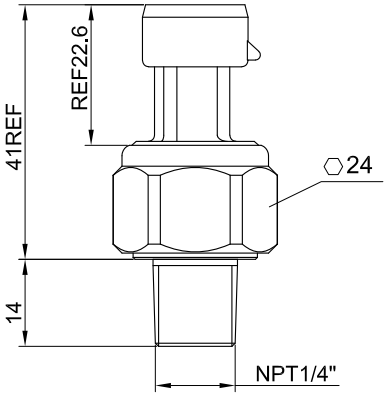
*All dimensions in MM.

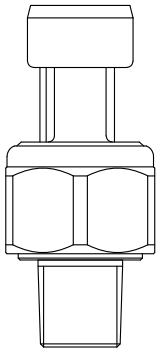
PS7xx-xxE-xx



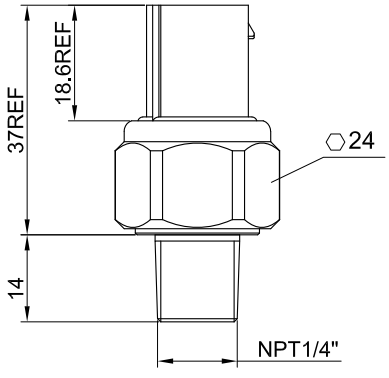


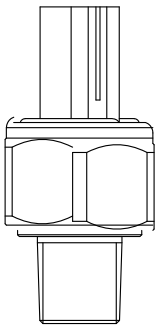
PS7xx-xxM-xx





PS7xx-xxN-xx





Specification

Sensor type	Ceramic Capacitors Type	**Pressure response time**	＜5ms
Default connector	N3 (mate with AMP 2-967642-1, Customizable)	**Working temp**	-20~120℃
Default Thread	1/4"BSP(Customizable)	**Pressure range**	0~6bar...0~40bar
Protection	IP65	**Burst pressure**	＜20bar: 2.5X pressure
Accuracy	1.0% F.S		＞20bar: 2.5 pressure

Code Identify

PS7A8-F4N-N4F

- F=female, none=male
- Thread and installation
- Connector
- Signal type, none=default
- Pressure (bar)
- Body type

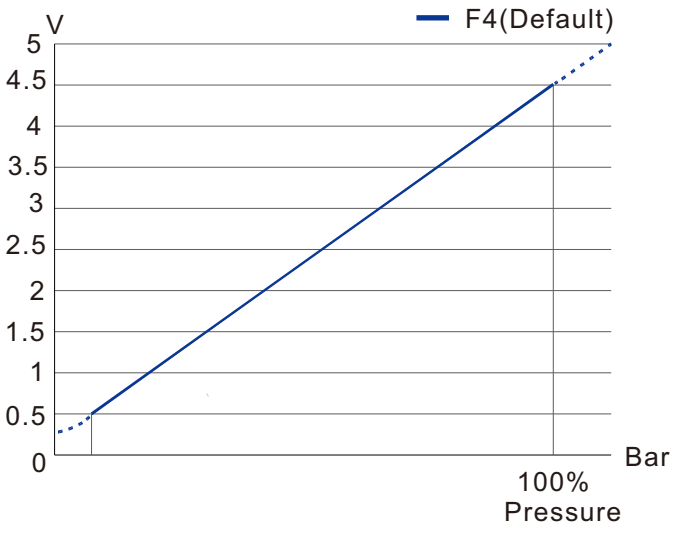
Body type	
A	SS304
B	SS316
C	SS316L
D	Brass
E	铝

Connector	
N	Mate with AMP 2-967642-1
M	Mate with Delphi 12065287
E	Mate with FCI211PC032S0049, AMP 1801177-1

Thread and installation	
B4	1/4"BSP, Default
B8	1/8"BSP
N4	1/4"NPT
N8	1/8"NPT

Output Types

Signal Type (Can be customized)		
Signal	Input	Output
F4 (Default)	5v	0bar/0.50v~F.S./4.50v
F5	5v	0bar/0.25v~F.S./4.15v
F6	5v	0bar/0.25v~F.S./4.75v
F7	5v	0bar/0.50v~F.S./4.41v
T4	9~24v	0bar/0.50v~F.S./4.50v
T5	9~24v	0bar/0.25v~F.S./4.15v
T6	9~24v	0bar/0.25v~F.S./4.75v
T7	9~24v	0bar/0.50v~F.S./4.41v



PT0 MEMS Type - Industrial Pressure Transmitter

Sensor type	MEMS
Default connector	1/4"NPT(Customizable)
Thread size	M12x1.25(Customizable)
Protection	IP65
Pressure response time	< 5ms
Burst pressure	2X Absolute pressure
Working temp	-20~120℃
Accuracy	0.5% F.S

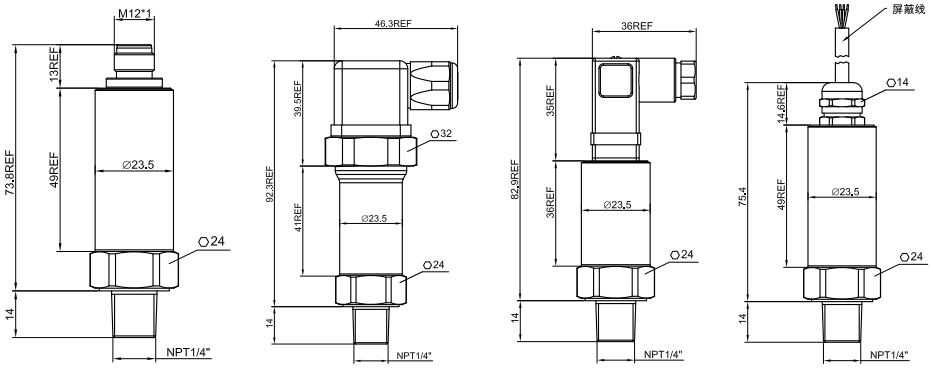
M12 connector

Big Hirschmann connector

Small Hirschmann connector

Direct line connector

- Long durability
- High stability
- Wide range of media
- Low temperature drift
- High burst pressure ratio



*All dimensions in MM.

Code Identify

PT0A10-C1T-N4

- N4 — Thread and installation
- T — Connector
- C1 — Signal Type
- 10 — Pressure
- A — Case material

Case material
A-SS304 B-SS316 C-SS316L

Thread and installation	
N4	1/4"NPT
B4	1/4"BSP
S7	7/16-20UNF
T4	1/4"BSPT
M145	M14x1.5
M125	M12x1.5

Pressure Range							
1.0	0-1.0bar		6.0	0-6.0bar		11.0	0-11.0bar
2.0	0-2.0bar		7.0	0-7.0bar		12.0	0-12.0bar
3.0	0-3.0bar		8.0	0-8.0bar		13.0	0-13.0bar
4.0	0-4.0bar		9.0	0-9.0bar		14.0	0-14.0bar
5.0	0-5.0bar		10.0	0-10.0bar		15.0	0-15.0bar

Signal Typ(Customizable)		
Signal	Input	Output
C1	12-30V	4-20mA
T1	12-30V	0-5V
T2	12-30V	0-10V
F4	5V	0.5-4.5V

Connector	
M	M12
T	Big Hirschmann connector
S	Small Hirschmann connector
D	Direct line connector

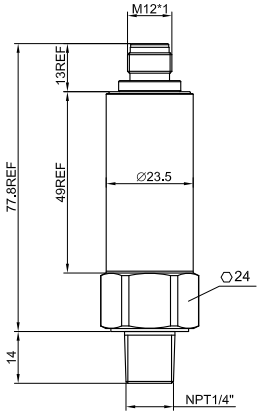
PT1 Ceramic Type - Industrial Pressure Transmitter

- Long durability
- High stability
- Wide range of media
- Low temperature drift
- High burst pressure ratio

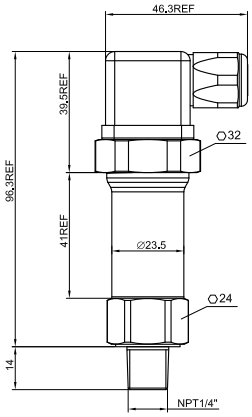
M12 connector

Big Hirschmann connector

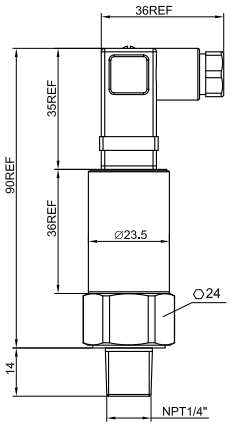
Small Hirschmann connector



M12 connector



Big Hirschmann connector



Small Hirschmann connector

*All dimensions in MM.

Code Identify

PT1A10-C1T-N4

- N4 — Thread
- T — Connector
- C1 — Signal Type
- 10 — Pressure
- A — Case material (A-SS304 B-SS316 C-SS316L)

Thread	
N4	1/4"NPT
B4	1/4"BSP
S7	7/16-20UNF
T4	1/4"BSPT
M145	M14x1.5

Pressure Range			
-1-0bar	-1-4bar	0-6bar	0-60bar
-1-1.0bar	0-1bar	0-10bar	0-100bar
-1-1.6bar	0-1.6bar	0-16bar	0-160bar
-1-2bar	0-2bar	0-20bar	0-200bar
-1-2.5bar	0-2.5bar	0-25bar	0-250bar
-1-3bar	0-4bar	0-40bar	

Signal Type (Customizable)		
Signal	Input	Output
C1	12-30V	4-20mA
T1	12-30V	0-5V
T2	12-30V	0-10V
F4	5V	0.5-4.5V

Connector	
M	M12
T	Big Hirschmann connector
S	Small Hirschmann connector

PT2 Diffused Silicon Type - Industrial Pressure Transmitter

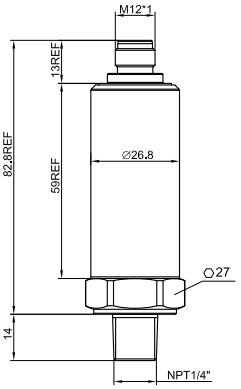
- Long durability
- High stability
- Wide range of media
- Low temperature drift
- High burst pressure ratio

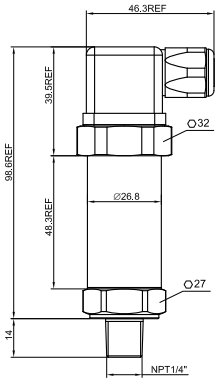
M12 connector

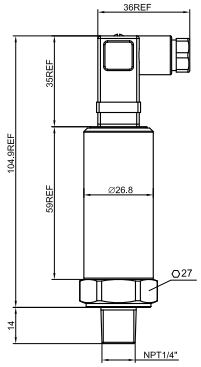
Big Hirschmann connector

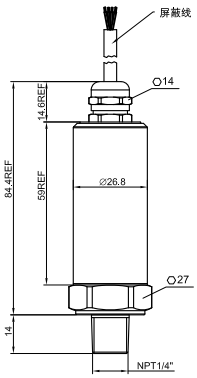
Small Hirschmann connector

Direct line connector

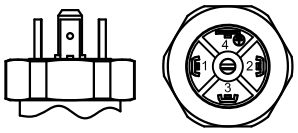




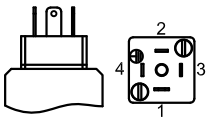




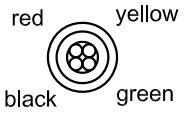
PIN#	C1(4~20mA)/T2(0~10V)
1	Supply+
2	Supply-
3	Signal(for 3-wire)
4	Shield



PIN#	C1(4~20mA)	T2(0~10V)
1	Vin	Vin
2	Signal	GND
3	NC	Signal
4	Shield	Shield



PIN#	C1(4~20mA)	T2(0~10V)
1	Vin	Vin
2	Signal	GND
3	NC	Signal
4	Shield	Shield



PIN#	C1(4~20mA)	T2(0~10V)
Red	Vin	Vin
Green	Signal	Signal
Black	NC	GND
Yellow	Shield	Shield

*All dimensions in MM.

Code Identify

PT2A10-C1T-N4

- N4 — Thread
- T — Connector
- C1 — Signal Type
- 10 — Pressure
- A — Case material (A-SS304 B-SS316 C-SS316L)

Connector	
M	M12
T	Big Hirschmann connector
S	Small Hirschmann connector
D	Direct line connector

Thread	
N4	1/4"NPT
B4	1/4"BSP
S7	7/16-20UNF
T4	1/4"BSPT
M145	M14x1.5

Pressure Gauge						
-1-0bar	-1-0.6bar	-1-6bar	0-0.4bar	0-4bar	0-40bar	0-400bar
-1-0.1bar	-1-1bar	-1-10bar	0-0.6bar	0-6bar	0-60bar	0-600bar
-1-0.16bar	-1-1.6bar	0-0.1bar	0-1bar	0-10bar	0-100bar	
-1-0.2bar	-1-2bar	0-0.16bar	0-1.6bar	0-16bar	0-160bar	
-1-0.25bar	-1-2.5bar	0-0.2bar	0-2bar	0-20bar	0-200bar	
-1-0.4bar	-1-4bar	0-0.25bar	0-2.5bar	0-25bar	0-250bar	

Signal Type(Customizable)		
Signal	Input	Output
C1	12-30V	4-20mA
T1	12-30V	0-5V
T2	12-30V	0-10V
F4	5V	0.5-4.5V

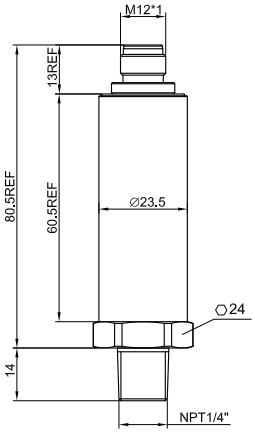
PT3 Glass Microfusion Type - Industrial Pressure Transmitter

- Long durability
- High stability
- Wide range of media
- Low temperature drift
- High burst pressure ratio

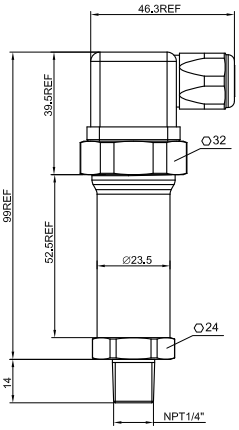
M12 connector

Big Hirschmann connector

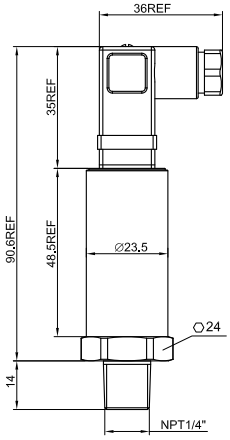
Small Hirschmann connector



M12 connector



Big Hirschmann connector



Small Hirschmann connector

*All dimensions in MM.

Code Identify

PT3A10-C1T-N4

- A: Case material (A-SS304 B-SS316 C-SS316L)
- 10: Pressure
- C1: Signal Type
- T: Connector
- N4: Thread

Connector	
M	M12
T	Big Hirschmann connector
S	Small Hirschmann connector

Thread	
N4	1/4"NPT
B4	1/4"BSP
S7	7/16-20UNF
T4	1/4"BSPT
M145	M14x1.5

Pressure Range					
10	0-10bar	60	0-60bar	400	0-400bar
16	0-16bar	100	0-100bar	600	0-600bar
20	0-20bar	160	0-160bar	700	0-700bar
25	0-25bar	200	0-200bar	1000	0-1000bar
40	0-40bar	250	0-250bar	2000	0-2000bar

Signal Type(Customizable)		
Signal	Input	Output
C1	12-30V	4-20mA
T1	12-30V	0-5V
T2	12-30V	0-10V
F4	5V	0.5-4.5V

Sensored Pressure Gauge

☆ Sensored Pressure Gauge material including stainless steel, all stainless steel, mild steel.

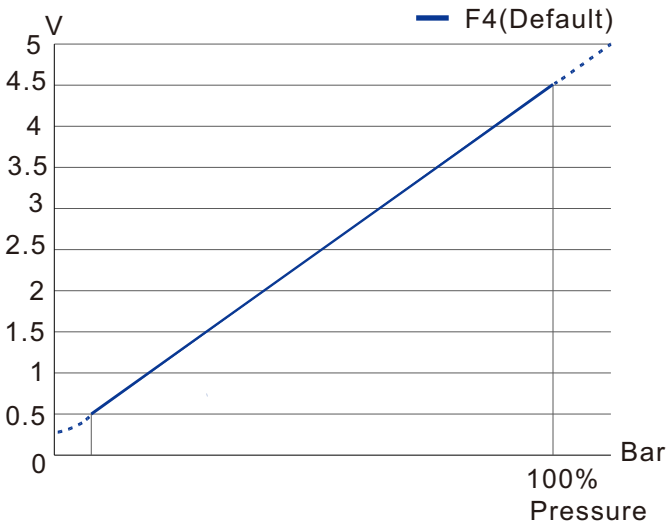
☆ It's linear volt output, the output is based on a mechanical system with extra compensation.

Specification

Sizes	B:50mm C: 63mm G: 100mm		
Window	Polycarbonate/ Tempered Glass/ Laminated Glass		
Accuracy	Mechanical: 1.6%/1.0%* Electrical: 1.0%/0.6%* (*Available under request)		
Dial	Plastic	**Pressure range**	VAC~9PSI~15000PSI
Pointer	PA66+30%GF	**Advantages**	Reliability, visibility, precision

Output Types

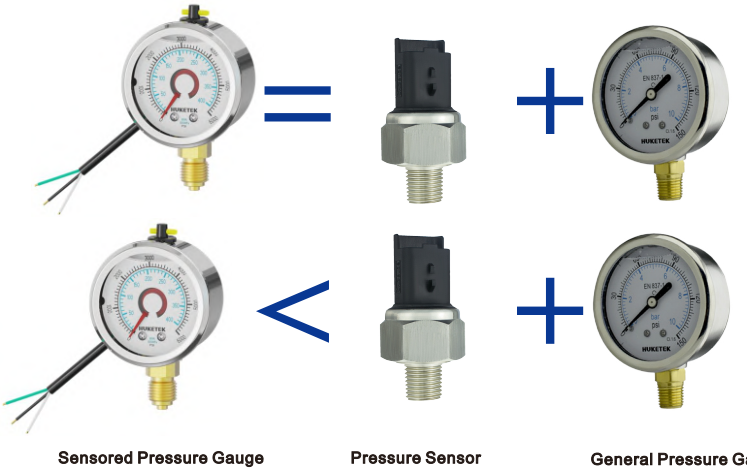
Signal Type (Can be customized)		
Signal	Input	Output
F4 (Default)	5v	0bar/0.50v~F.S./4.50v
F5	5v	0bar/0.25v~F.S./4.15v
F6	5v	0bar/0.25v~F.S./4.75v
F7	5v	0bar/0.50v~F.S./4.41v
T4	9~24v	0bar/0.50v~F.S./4.50v
T5	9~24v	0bar/0.25v~F.S./4.15v
T6	9~24v	0bar/0.25v~F.S./4.75v
T7	9~24v	0bar/0.50v~F.S./4.41v



Comparison Chart

Function

Cost Control



10 Series - SS Case Sensored Pressure Gauge

☆ 10 series is linear volt output, the output is based on a mechanical system with extra compensation.

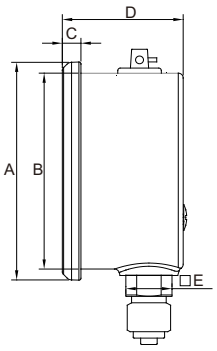
Material Feature			
Sizes	LB:50mm LC:63mm LG:100mm	**Connection**	Brass NPT/BSP/BSPT/Metric
Case&Ring	SS304, Polished	**Connection Type**	LB107 & LC107: 1 Part
Movement	Brass		LG101: 2 Parts
Bourdon Tube	Phosphorus Bronze	**Protection**	IP67
Filling Liquid	Dry	**Accuracy**	Mechanical: 1.6%/1.0%*
Pressure range	VAC~9PSI~15000PSI		Electrical: 1.0%/0.6%*
*90% of the gauges are 1.0%/0.6% accuracy under automated calibration technology even for 40mm.			

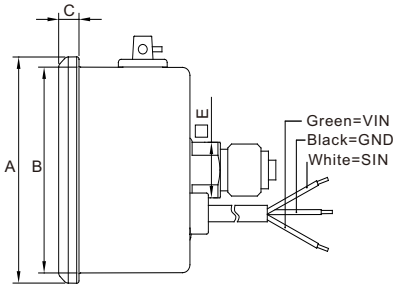
107A

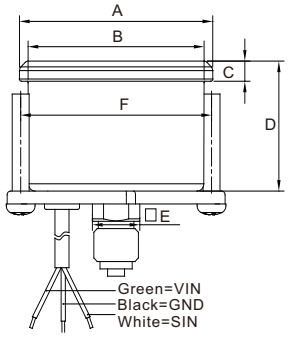
107B

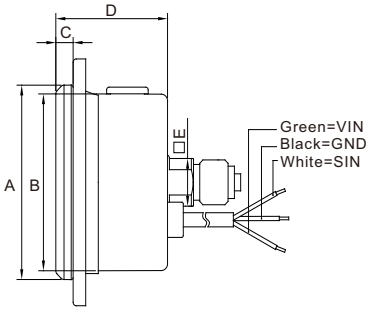
107D

107F







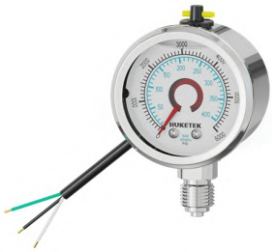


DIMENSIONS							
Code	Dia (mm)	Size (mm)					
		A	B	C	D	E	F
LB107	50	57.0	52.0	6.0	36.0	14.0	60.0
LC107	63	68.0	61.0	6.0	36.0	14.0	71.0
LG101A	100	108.0	99.0	7.0	40.0	22.0	-
LG101B	100	108.0	99.0	7.0	38.0	22.0	-
LG101D	100	108.0	99.0	7.0	38.0	22.0	116.0
LG101F	100	108.0	99.0	7.0	38.0	22.0	-

11 Series - All SS Sensored Pressure Gauge

☆ 11 series is linear volt output, the output is based on a mechanical system with extra compensation.

Material Feature			
Sizes	LB:50mm LC:63mm LG:100mm	**Connection**	SS316 NPT/BSP/BSPT/Metric
Case&Ring	SS304, Polished	**Connection Type**	LB117 & LC117: 1 Part
Movement	SS304		LG111: 2 Parts
Bourdon Tube	SS316L	**Protection**	IP67
Filling Liquid	Dry	**Accuracy**	Mechanical: 1.6%/1.0%*
Pressure range	VAC~9PSI~15000PSI		Electrical: 1.0%/0.6%*
*90% of the gauges are 1.0%/0.6% accuracy under automated calibration technology even for 40mm.			

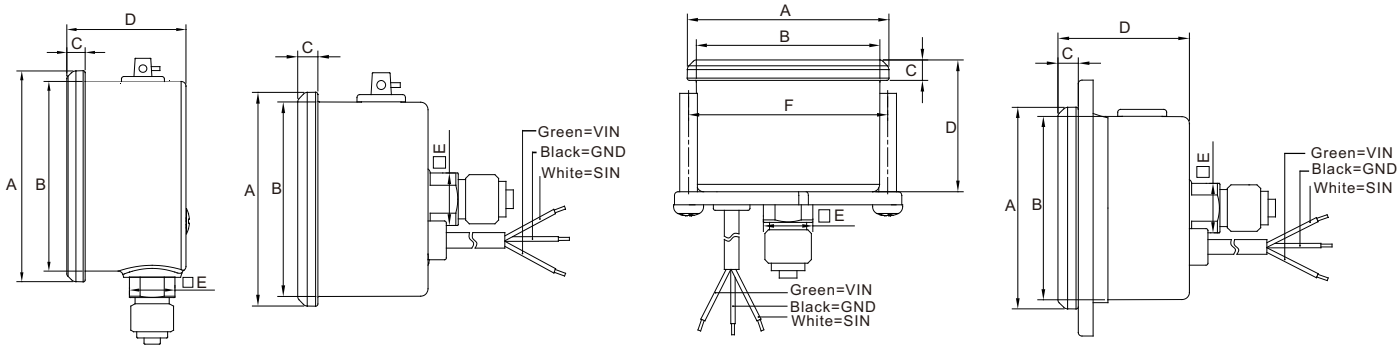


117A

117B

117D

117F



DIMENSIONS							
Code	Dia (mm)	Size (mm)					
		A	B	C	D	E	F
LB117	50	57.0	52.0	6.0	36.0	14.0	60.0
LC117	63	68.0	61.0	6.0	36.0	14.0	71.0
LG111A	100	108.0	99.0	7.0	40.0	22.0	-
LG111B	100	108.0	99.0	7.0	38.0	22.0	-
LG111D	100	108.0	99.0	7.0	38.0	22.0	116.0
LG111F	100	108.0	99.0	7.0	38.0	22.0	-

20 Series - Mild Steel Case Sensored Pressure Gauge

☆ 20 series is linear volt output, the output is based on a mechanical system with extra compensation.

☆ Used in Non-corrosive to brass, phosphor bronze, or beryllium copper, air, oil, gas and water services, etc.

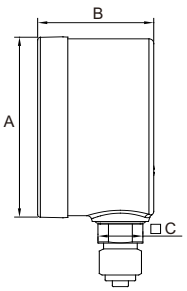
Material Feature			
Sizes	LB:50mm LC:63mm LG:100mm	**Connection**	Brass NPT/BSP/BSPT/Metric
Case&Ring	Mild Steel	**Connection Type**	LB201 & LC201: 1 Part
Movement	Brass		LG201: 2 Parts
Bourdon Tube	Phosphor bronze	**Protection**	IP65
Filling Liquid	Dry	**Accuracy**	Mechanical: 1.6%/1.0%*
Pressure range	VAC~9PSI~15000PSI		Electrical: 1.0%/0.6%*
*90% of the gauges are 1.0%/0.6% accuracy under automated calibration technology even for 40mm.			

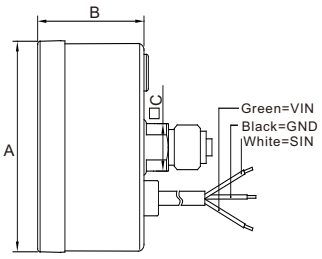
LC201A

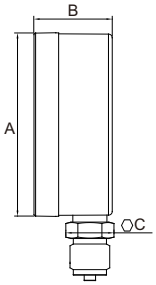
LC201B

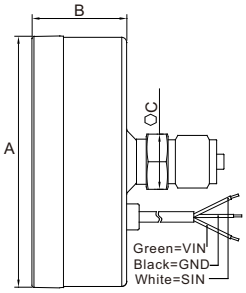
LG201A

LG201B









DIMENSIONS				
Code	Dia (mm)	Size (mm)		
		A	B	C
LB201	50	52.5	35.0	14.0
LC201	63	62.0	35.0	14.0
LG201A	100	101.0	40.0	22.0

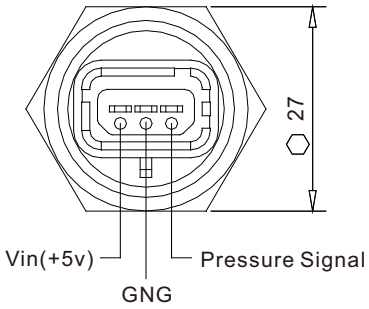
PSH Ceramic Type - Hydrogen Energy Pressure Sensor

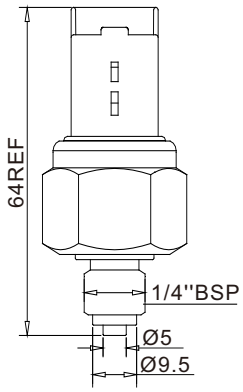
☆ PSH series is ceramic type pressure sensor, and designed for hydrogen energy.

☆ We have an internal lab for hydrogen brittleness testings and researches.

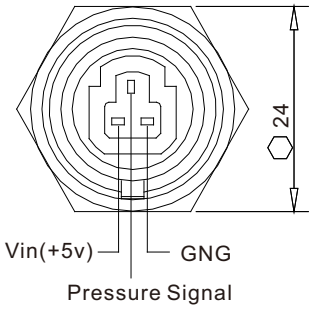
*All dimensions in MM.

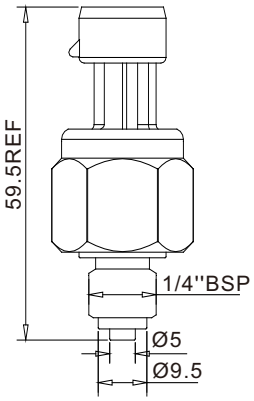
PSHxx-xxE-xx



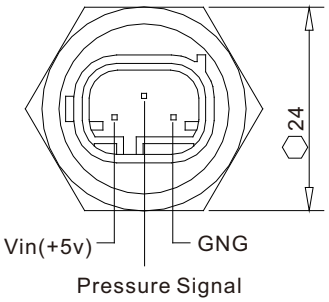


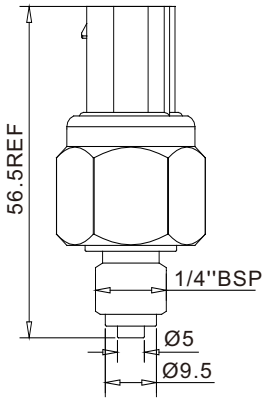
PSHxx-xxM-xx





PSHxx-xxN-xx





Specification

Sensor type	Ceramic	**Pressure response time**	5ms
Default connector	N3 (mate with AMP 2-967642-1, Customizable)	**Burst pressure**	2.5X pressure
Thread size	1/4"BSP(Customizable)	**Working temp**	-40~120℃
Protection	IP67	**Accuracy**	1.0%(0.5% available)

Code Identify

PSH10-F4N-N4F

- F=female, none=male
- Thread and installation
- Connector
- Signal type, none=default
- Pressure (bar)

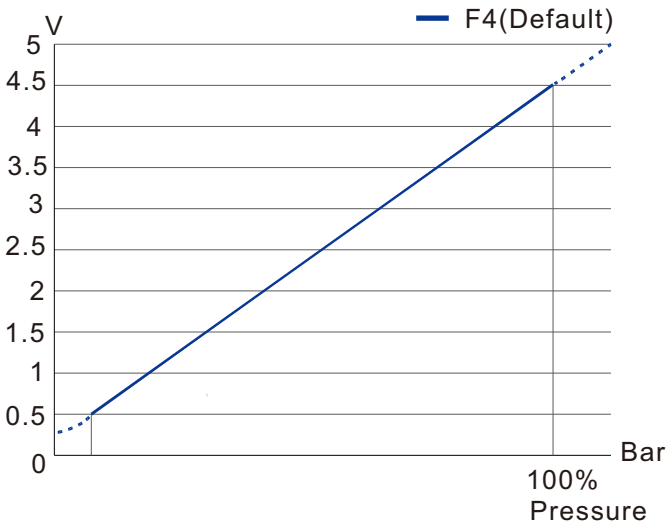
Pressure Range	
250	0-250bar (Default)
1000	0-1000bar
10	0-10bar
16	0-16bar

Connector	
N	Mate with AMP 2-967642-1
M	Mate with Delphi 12065287
E	Mate with FC1211PC032S0049, AMP 1801177-1

Thread and installation	
B4	1/4"BSP, Default
N4	1/4"NPT
M123	M12*1
M145	M14*1.5

Output Types

Signal Type (Can be customized)		
Signal	Input	Output
F4 (Default)	5v	0bar/0.50v~F.S./4.50v
F5	5v	0bar/0.25v~F.S./4.15v
F6	5v	0bar/0.25v~F.S./4.75v
F7	5v	0bar/0.50v~F.S./4.41v
T4	5~30v	0bar/0.50v~F.S./4.50v
T5	5~30v	0bar/0.25v~F.S./4.15v
T6	5~30v	0bar/0.25v~F.S./4.75v
T7	5~30v	0bar/0.50v~F.S./4.41v



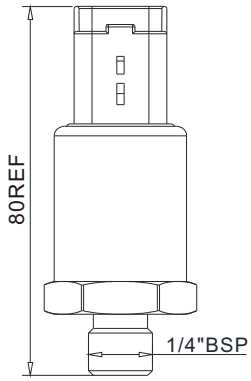
PS3H Glass Microfusion Type - Hydrogen Energy Pressure Sensor

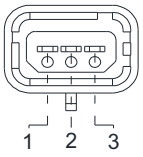
☆ The PS3H series pressure sensor is dedicated to the pressure sensor of hydrogen energy, and has passed the hydrogen embrittlement test and related research with reference to domestic and foreign standards. It adopts glass micro-melting core body, the core body is an integral design, stainless steel 316L shell and joints, high corrosion resistance and high resistance to hydrogen embrittlement, no risk of leakage, compact and reliable, strong overload capacity, and good long-term stability.

☆ The pressure range of this series of sensors can be from 0 to 2000bar (absolute pressure), and the accuracy can reach ±0.5%. It can realize remote data transmission, and can provide a variety of process connection methods according to customer requirements.

*All dimensions in MM.

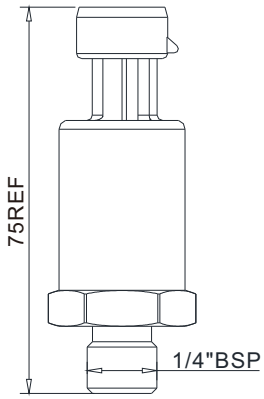
PS3Hxx-xxE-xx

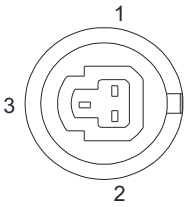




PIN#	F4(0.5~4.5V)
1	Vin(+5V)
2	GND
3	Signal

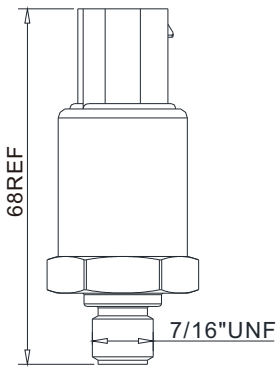
PS3Hxx-xxM-xx

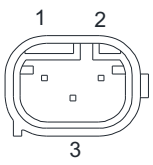




PIN#	F4(0.5~4.5V)
1	GND
2	Vin(+5V)
3	Signal

PS3Hxx-xxN-xx





PIN#	F4(0.5~4.5V)
1	GND
2	Vin(+5V)
3	Signal

Specification

Sensor type	Glass Microfusion Type	**Pressure response time**	1ms
Default connector	N3 (mate with AMP 2-967642-1, Customizable)	**Pressure range**	0-20bar ~ 0-2000bar
Default Thread	1/4''BSP(Customizable)	**Working temp**	-40~120℃
Protection	IP67	**Accuracy**	1.0%(0.5% available)
Insulation	›100 MΩ @ 50V	**Temperature compensation**	YES

Code Identify

PS3H100-F4N-N4F

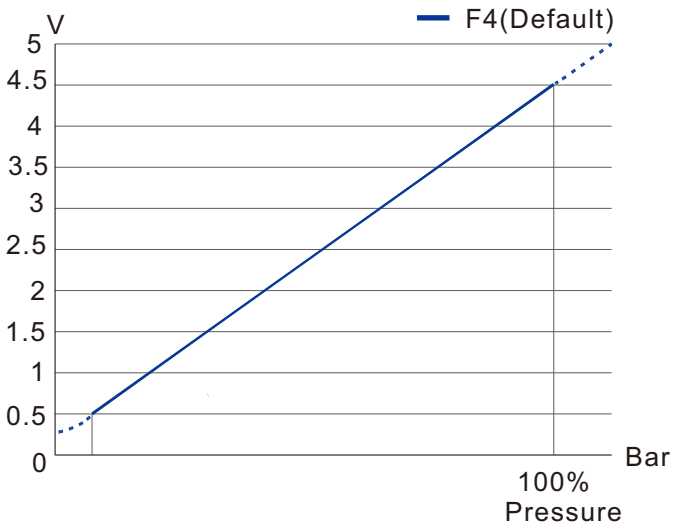
- F=female, none=male
- Thread and installation
- Connector
- Signal type, none=default
- Pressure (bar)

Connector	
N	Mate with AMP 2-967642-1
M	Mate with Delphi 12065287
E	Mate with FCI211PC032S0049,AMP 1801177-1

Thread and installation	
B4	1/4"BSP, Default
B8	1/8"BSP
N4	1/4"NPT
N8	1/8"NPT

Output Types

Signal Type (Can be customized)		
Signal	Input	Output
F4 (Default)	5v	0bar/0.50v~F.S./4.50v
F5	5v	0bar/0.25v~F.S./4.15v
F6	5v	0bar/0.25v~F.S./4.75v
F7	5v	0bar/0.50v~F.S./4.41v
T4	9~24v	0bar/0.50v~F.S./4.50v
T5	9~24v	0bar/0.25v~F.S./4.15v
T6	9~24v	0bar/0.25v~F.S./4.75v
T7	9~24v	0bar/0.50v~F.S./4.41v



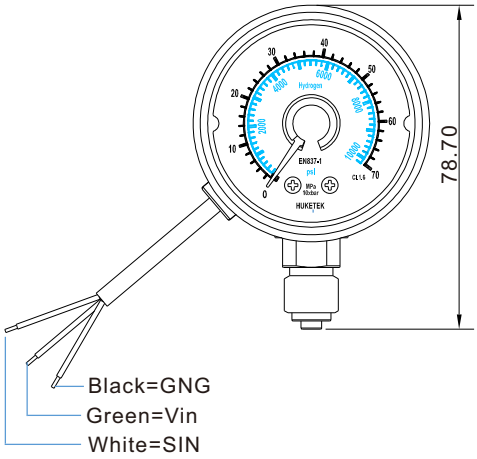
LB917 Series - Hydrogen Sensored Pressure Gauge

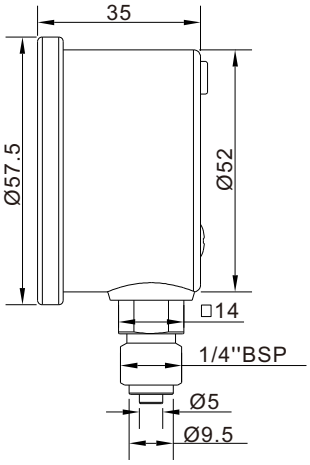
☆ LB917A are pressure gauge with linear volt output(for hydrogen energy), A sensor is inside the gauge to supply output.

☆ It can be customized, the advantages of Reliability, Visibility, and Precision. It can fully meet the requirements of the application of automobile and industry.

LB917A: Traditional Connection

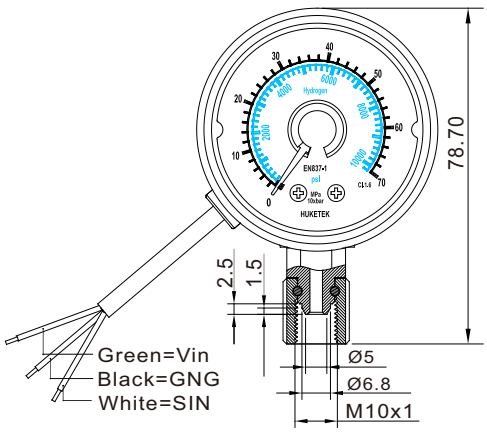
*All dimensions in MM.

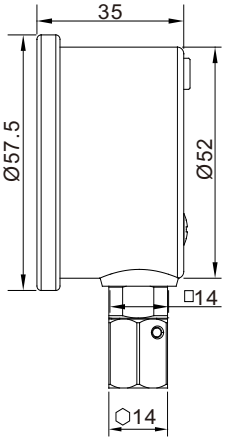




LB917H: Loose Connection

When installing the pressure gauge, you can adjust the orientation of the gauge freely according to your needs, which will be more convenient for reading data and maintaining, or other purposes.





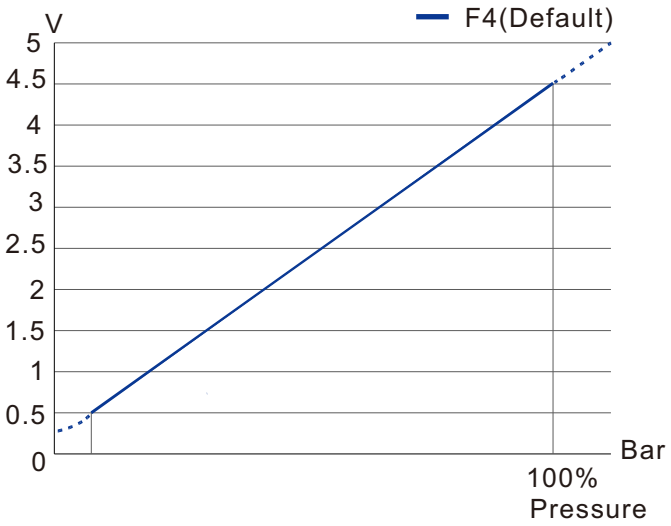
Specification

Case	Stainless steel, Polished	**Thread size**	1/4"BSP, M10x1 Female
Ring	Stainless steel, Polished	**Movement**	Brass, Stainless steel
Window	Polycarbonate	**Bourdon tube**	Stainless steel
Dial	Plastic	**Accuracy**	Mechanical: 1.6%/1.0%* Electrical: 1.0%/0.6%*
Pointer	PA66+30%GF	**Pressure range**	0~700bar, 0~1000bar
Connection	Stainless steel	**Protection**	IP67

*Available under request

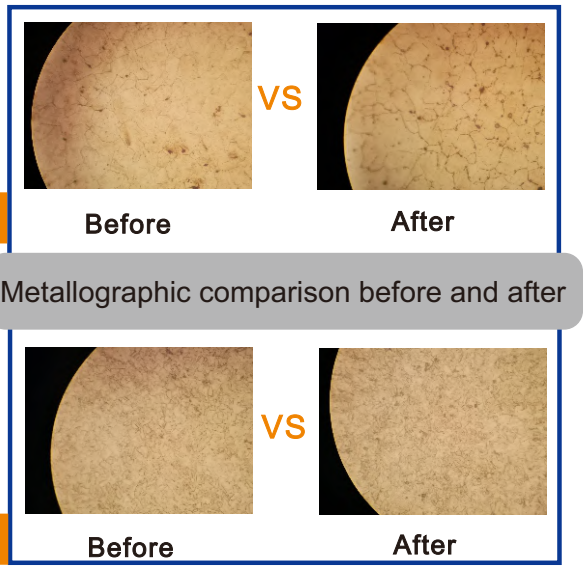
Output Types

Signal Type (Can be customized)		
Signal	Input	Output
F4 (Default)	5v	0bar/0.50v~F.S./4.50v
F5	5v	0bar/0.25v~F.S./4.15v
F6	5v	0bar/0.25v~F.S./4.75v
F7	5v	0bar/0.50v~F.S./4.41v
T4	9~24v	0bar/0.50v~F.S./4.50v
T5	9~24v	0bar/0.25v~F.S./4.15v
T6	9~24v	0bar/0.25v~F.S./4.75v
T7	9~24v	0bar/0.50v~F.S./4.41v



Hydrogen Embrittlement Test

Test process and equipment

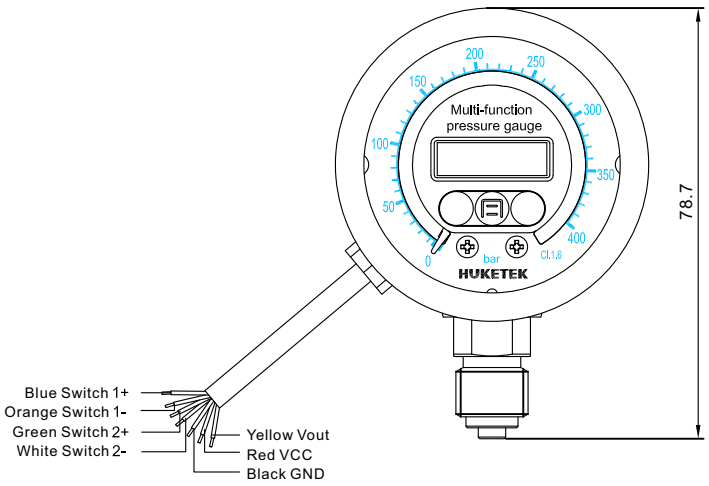


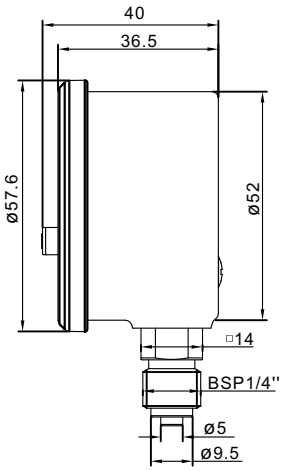
RB107 Series - SS Case Multi-function Pressure Gauge

★ Use adjustable output signal ★ Setup able switches ★ Digital Display

RB107 is a 3-in-1 solution, combining the function of a pressure sensor, a pressure gauge and a digital display.

Specification			
Case	SS304, Polished	**Connection**	Brass NPT/BSP/BSPT/Metric
Ring	SS304, Polished	**Thread Size**	1/8'', 1/4'', 3/8'',1/2''
Window	Polycarbonate	**Bourdon Tube**	Brass
Movement	Brass	**Accuracy**	Mechanical: 1.6%/1.0%*
Dial	Plastic		Electrical: 1.0%/0.6%*
Pointer	PA66+30%GF	**Pressure range**	VAC~9PSI~15000PSI
Protection	IP67	**Imput**	5v(Accept customized)
Switch current	< or =	**Output**	0.5~4.5v(User calibratable)
*90% of the gauges are 1.0%/0.6% accuracy under automated callibration technology even for 40mm.			





RB107A

Multi-function Pressure Gauge Instruction

Power on	Automatically after connect to power supply
Enter setup	 Press middle button 2 second, then press left or right button to select the item, middle button to enter.
Setup codes	1O= set pressure of switch 1 ON 1F= set pressure of switch 1 OFF 2O= set pressure of switch 2 ON 2F= set pressure of switch 2 OFF OUTL= set pressure for 0.5v output OUTH= set pressure for 4.5v output ESC= exit setup and return to pressure display
Switch setup (switch 1 for example)	 1. Find 1O
	 2. pressure middle button to enter 1O, then press left or right button to adjust pressure, and press middle button again to save and exit.
	 3. Find 1F
	 4. pressure middle button to enter 1F, then press left or right button to adjust pressure, and press middle button again to save and exit.
	Switch logic: 1) If ON pressure is lower than OFF pressure: when gauge pressure is lower than ON pressure, switch turns on, when gauge pressure is higher than OFF pressure, switch turns OFF. 2) If ON pressure is higher than OFF pressure: when gauge pressure is higher than ON pressure, switch turns on, when gauge pressure is lower than OFF pressure, switch turns OFF.
Output setup	 1. Find OUTL
	 2. pressure middle button to enter OUTL, then press left or right button to adjust pressure, and press middle button again to save and exit.
	 3. Find OUTH
	 4. pressure middle button to enter OUTH, then press left or right button to adjust pressure, and press middle button again to save and exit.
	After finish setup, system will adjust the output curve automatically.

HUKETEK
沪科

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