

PK260 Hydrogen Pressure Transmitter

Product Certification



RoHS



Aluminum shell

Application Scenarios



Hydrogen refueling station



Storage and transportation of hydrogen energy



Petroleum & Petrochemical



Machinery manufacturing



Ferrous metallurgy



Integrated

Product Features

Range	Accuracy	Output	Connection Material
0...200MPa	0.2%FS、 0.25%FS、 0.5%FS	4...20mA、0...5V 、0...10V、 Modbus、HART	Stainless Steel 316L

Product Description

The product structure is an integral metal seal that complies with the requirements of GB4962- Safety Technical Regulations for the Use of Hydrogen Gas. Combined with special safety design, it can satisfy applications in hydrogen rich and high-pressure conditions, while also effectively avoiding secondary disasters caused by product rupture.

Pressure types are divided into gauge pressure, absolute pressure, and differential pressure, the maximum pressure range can reach 200MPa.

We have adopted leading silicon piezoresistive, glass micro melting, and sputtering thin film technologies. Capable of meeting the needs of customers with high precision, high reliability, and excellent long-term stability requirement. The accuracy level can be selected from the following series: 0.2% FS, 0.25% FS, 0.5% FS.

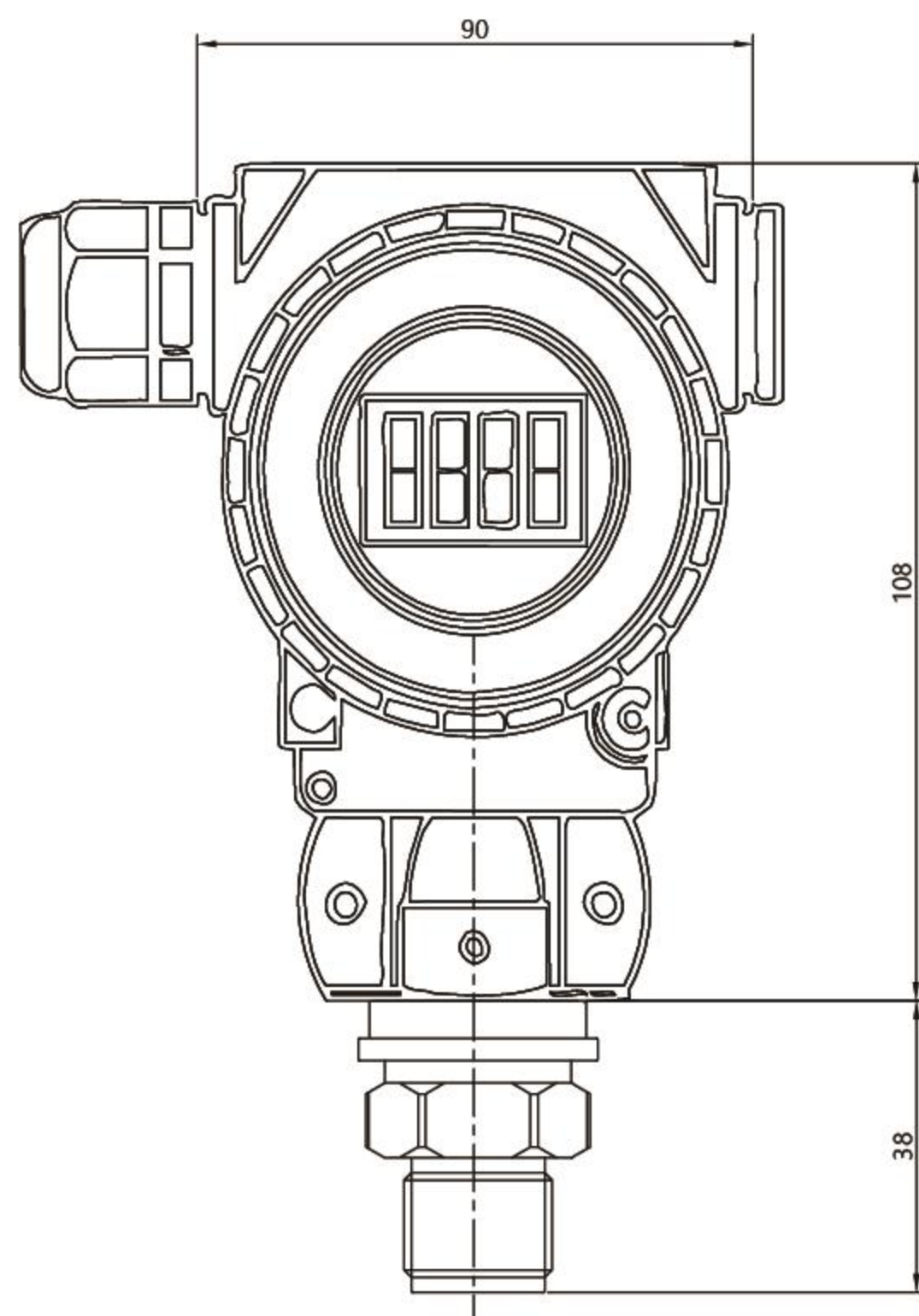
To meet the requirements of the hydrogen industry, the sensor adopts an all stainless steel design, and all liquid receiving surfaces are treated with special materials and special processes, effectively pre heating anti hydrogen embrittlement and hydrogen permeation.

Technical Parameter

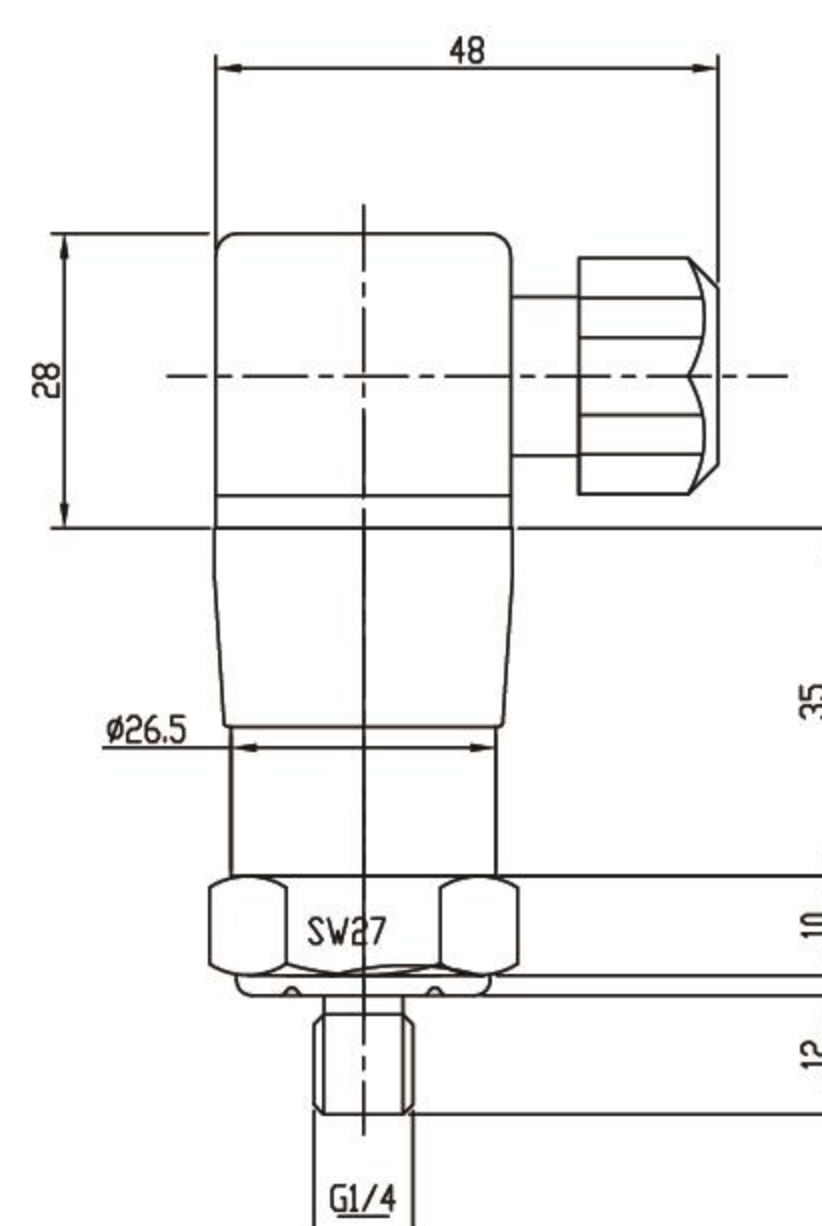
Application scenarios	Gauge, Negative, Absolute pressure
Measurement range	0.....200MPa
Comprehensive accuracy	0.2%FS、0.25%FS、0.5%FS
Overpressure	1.5 times-3 times
Response time	<5ms (rising to 90% FS)
Medium temperature	-40.....125°C
Operating temperature	-40.....125°C
Supply voltage	DC24V (10...30 V DC) 、 DC3...5 V (I2C)
Output signal	4...20mA 、 0...5V、 0...10V、 Modbus、 HART
Sealing level	IP65
Connection material	Stainless steel 316L
Diaphragm material	Stainless steel 316L, gold-plated diaphragm
Stability performance	0.2% FS/year
Process connection	Thread, flange
Electrical connection	M20, NPT1/2, Hirschmann, M12, etc

Specifications and Dimensions

Aluminum housing



Integrated - Hirschmann



Certification

- A Common
- B NEPSI Ex ia IIC T4
- C NEPSI Ex d IIC T6
- E NEPSI Ex d ia IIC T6

Shell+Communication interface

- M Aluminum shell+M20 communication interface
- N Aluminum shell+NPT1/2 communication interface
- 1 Integrated+M12 connector
- 2 Integrated+Hirschmann connector
- 3 Integrated+aviation connector
- 4 Integrated+waterproof type
- S All stainless steel housing
- Y Customized

Range

- BA 40kPa
- BB 100kPa
- BW 200kPa
- BC 400kPa
- BD 600kPa
- BE 1MPa
- BF 1.6MPa
- BG 2.5MPa
- BH 4MPa
- BI 10MPa
- BM 20MPa
- BN 30MPa
- BK 40MPa
- BO 50MPa
- BL 60MPa
- BS 70MPa
- BR 100MPa
- BT 140MPa
- BU 200MPa
- YY Customized

Output

- 1 4-20mA
- 2 4-20mA + Display
- 3 0-10V
- 4 0-10V + Display
- 5 Modbus
- 6 Modbus + Display
- 7 4-20mA Hart
- 8 4-20mA Hart+ Display
- D IIC communication
- Y Customized

Process connection

- GM M20x1.5
- GN NPT1/2
- NN NPT1/2 F Female
- GO G1/4
- NO G1/4 F Female
- GP G1/2
- NP G1/2 F Female
- GT NPT1/4
- NT NPT1/4 F Female
- YY Customized

Type

- G Gauge
- A Absolute
- M Negative

Accuracy

- E 0.2%FS
- F 0.25%FS
- K 0.5%FS

10 20 30 40 50 60 70

PK260 Hydrogen Pressure Transmitter

Selection rules:

Requirements: Explosion proof, M20 communication connector, 4-20mA output with display, 40MPa gauge pressure \ 0.25% FS, and NPT1/4 thread

Select model: PK260-CM2BKGGTF