

PK866 Diaphragm Pressure Transmitter

Certification



Ex ia II C T4 Ga

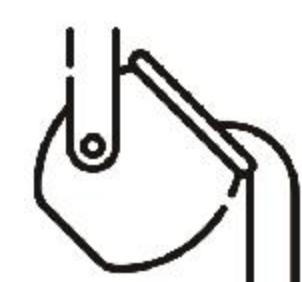


Ex d II C T6 Gb

RoHS



Application Scenarios

Petroleum and
PetrochemicalFerrous
metallurgyWater treatment
systemMeasurement and
control field

Product Features

Range	Accuracy	Medium temperature	Connection material	Diaphragm
-100kPa... 40MPa Gauge, Negative, and Absolute pressure	0.05%FS 0.075%FS 0.1%FS	-40...400°C	Stainless steel 304, stainless steel 316, duplex steel, Hastelloy alloy, zirconium material, etc	Stainless steel 304, stainless steel 316, duplex steel, Hastelloy alloy, zirconium material, etc

Product Description

As a diaphragm pressure transmitter, this product has a comprehensive accuracy of 0.05% FS and an annual drift of very small, 0.05% FS/year. Very stable performance and excellent long-term stability.

Measurement medium temperature range: -40... 400 °C, used to stably measure and monitor the pressure of high-temperature media such as steam and hot oil.

Widely used in petroleum and petrochemical, various chemical industries, steel metallurgy, water treatment systems, and industrial measurement and control fields.

The product uses high-performance conditioning chips and integrated circuits to convert sensor millivolt or milliampere signals into standard voltage, current, or digital signals, which can be directly communicate with upper computer, PLC, various intelligent instruments, and control monitoring platforms.

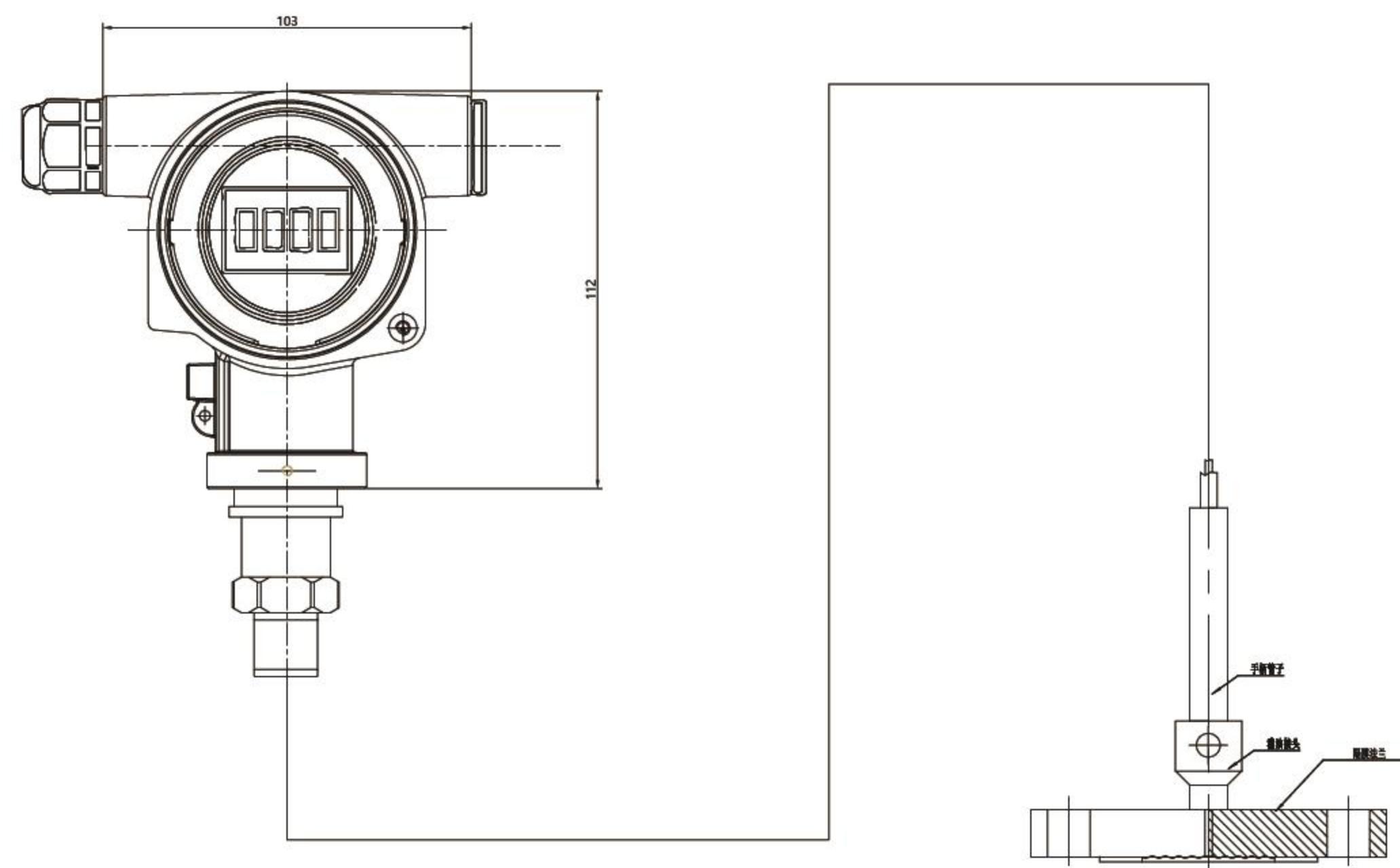
There are various types of connection materials and membrane materials, including stainless steel 304, stainless steel 316, anti-corrosion materials, Hastelloy alloy, titanium alloy, etc., which can be adjusted according to on-site working conditions

Choose the most suitable material.

Technical Parameter

Application scenarios	Gauge, Absolute and Negative pressure
Measurement range	-0.1MPa.....0.....40MPa
Comprehensive accuracy	0.05%FS、0.075%、0.1%FS
Overpressure	1.5 times
Response time	<5ms (rising to 90% FS)
Medium temperature	-40.....400°C
Operating temperature	-40.....85°C
Supply voltage	DC24V (10...30 V DC)
Output signal	4...20mA、0...5V、0...10V、Modbus、HART
Sealing level	IP65
Connection material	SS 304, SS 316, duplex steel, Hastelloy, Zirconium, etc
Diaphragm material	SS 316, Hastelloy alloy, Tantalum, PFA coating, Gold-plated
Stability performance	0.05% FS/year
Process connection	Thread, flange, clamp
Electrical connection	M20、NPT1/2、G1/2、M12

Specifications and Dimensions



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+cable plug M20
- L Aluminum shell+cable plug G1/2
- N Aluminum shell+cable plug NPT1/2
- K Aluminum shell+cable plug M12
- Y 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

Range

- BA 40kPa
- BB 100kPa
- BC 400kPa
- BD 600kPa

BE 1MPa

BF 1.6MPa

BG 2.5MPa

BH 4MPa

BI 10MPa

BK 40MPa

BL 60MPa

YY Customized

Type

G Gauge

A Absolute

M Negative

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
- GQ NPT3/4
- GR G1
- GS G2
- GT NPT1/4
- NT NPT1/4 F Female
- 1A DIN 11851 DN25
- 1B DIN 11851 DN32
- 1C DIN 11851 DN40
- 1D DIN 11851 DN50
- DA EN/DIN Flange DN25 PN10-40 B1
- DB EN/DIN Flange DN32 PN10-40 B1
- DC EN/DIN Flange DN40 PN10-40 B1
- DD EN/DIN Flange DN50 PN10-40 B1
- DE EN/DIN Flange DN80 PN10-40 B1
- AA ASME Flange 1" 300lbs RF
- AB ASME Flange 1-1/2" 150lbs RF
- AC ASME Flange 1-1/2" 300lbs RF
- AD ASME Flange 2" 150lbs RF
- AE ASME Flange 2" 300lbs RF
- AF ASME Flange 3" 150lbs RF
- AG ASME Flange 3" 300lbs RF
- AH ASME Flange 4" 150lbs RF
- AI ASME Flange 4" 300lbs RF
- HK HG/T20592 Flange DN25 PN10/40 RF
- HA HG/T20592 Flange DN50 PN10/40 RF
- HB HG/T20592 Flange DN63 PN10/40 RF
- HC HG/T20592 Flange DN80 PN10/40 RF
- HD HG/T20615 Flange NPS 2" Cl.150 RF
- HE HG/T20615 Flange NPS 3" Cl.150 RF
- HF HG/T20615 Flange NPS 2" Cl.300 RF
- HG HG/T20615 Flange NPS 3" Cl.300 RF
- YY Customized

Process connection material

- L 304
- S 316L
- D Dual phase steel
- H Hastelloy alloy
- Z Zirconium
- Y Customized

Process structure

- A Standard
- C Capillary type... meters
- E Capillary type (PVC protective tube)... meters

Diaphragm type

- S 316L
- P PFA coating
- H Hastelloy alloy
- T Tantalum
- G Gold-plated
- Y Customized

Accuracy

- A 0.05%
- B 0.075%
- C 0.1%

10 20 30 40 50 60 70 80 90 100

PK866 Diaphragm Pressure Transmitter

Selection rules:

Requirements: Explosion proof certification, M20 communication interface, 4-20mA Hart+display, 1MPa gauge pressure, 0.05% FS, G1/4 and threaded 316L

Select model: PK866-CM8BEGGOSASA