PK960 Differential Pressure Transmitter

Certification

CE

Ex NEPSI
Ex ia ⅡC T4 Ga

Ex NEPSI
Ex d ⅡC T6 Gb

RoHS

Application Scenarios

Petrochemical industry

Ferrous metallurgy

Water treatment system

Shipbuilding

Industrial measurement and control field

Product Features

Range	Accuracy	Output	Connection material	Diaphragm
0.....4MPa differential pressure	0.05%FS 、0.075%FS、0.1%FS	4...20mA 、0...5V 、0...10V、Modbus、HART	Stainless steel 304, Stainless steel 316	Stainless steel 316, Hastelloy alloy, tantalum, PFA coating

Product Description

This product is a differential pressure transmitter, with a maximum comprehensive accuracy of 0.05% FS and very small annual drift of 0.05% FS per year. Very stable performance, long-term stability, qualitative excellence. The product has obtained intrinsic safety and explosion-proof certification, and its high reliability performance is widely used in petrochemical, steel metallurgy, and water treatment systems in the fields of shipbuilding, industrial measurement, and control.

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.

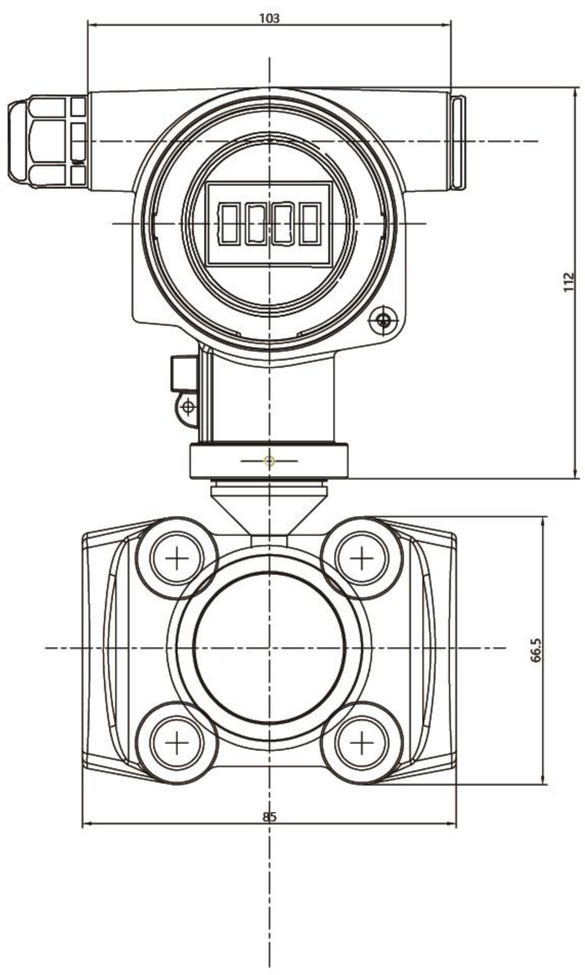
There are various types of connection materials and membrane materials, including stainless steel 304, stainless steel 316, anti-corrosion materials, Hastelloy alloy, titanium alloy, etc., which can be adjusted according to on-site working conditions

Choose the most suitable material.

Technical Parameter

Application scenarios	Differential pressure measurement
Measurement range	0.....4MPa
Comprehensive accuracy	0.05%FS、0.075%FS、0.1%FS
Overpressure	Unilateral overpressure maximum 10MPa
Max static pressure	Bilateral static pressure maximum 25MPa
Response time	<5ms (rising to 90% FS)
Medium temperature	-20.....70°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	Stainless steel 304, Stainless steel 316
Diaphragm material	Stainless steel 316, Hastelloy alloy, Tantalum, PFA coating
Stability performance	0.05% FS/year
Process connection	Thread, flange
Electrical connection	M20、NPT1/2、G1/2、M12

Specifications and Dimensions



BICCNS®
佰控传感

PK960

Certification

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

Shell+Communication

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

Range

DA 1kPa
DB 3kPa
DC 10kPa
DD 40kPa
DE 100kPa
DF 400kPa
DG 600kPa
DH 1MPa
DI 1.6MPa
DJ 2.5MPa
DK 4MPa
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

Diaphragm

S 316L
P PFA Coating
H Hastelloy alloy
T Tantalum
G Gold–plated
Y Customized

Process Connection

UA NPT1/4–18 M10 mounting hole
UB NPT1/4–18 M10 mounting hole, including air valvesx2
UC NPT1/4–18 M10 mounting hole, including NPT1/2 plug X2, air valve x2

Accuracy

A 0.05%
B 0.075%
C 0.1%

10	20	30	40	50	60	70

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Selection rules:

Requirements: Explosion proof certification, M20 communication connection, 4-20mA Hart+display, 1MPa, 0.05% FS, 316L and NPT1/4-18 IEC61518 UNF7/16-20 mounting holes

Select model: PK960-CM8DHSUA