

PK400 Universal Pressure Transmitter

Certification

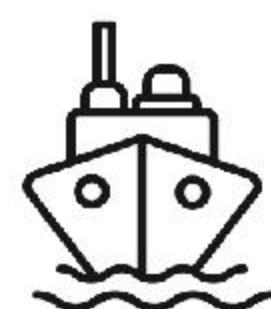


RoHS

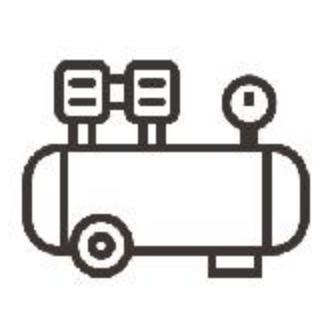
Ex ia II C T4 Ga



Application Scenarios



Shipbuilding



Pump and Compressor



Hydraulic/Pneumatic systems



Water treatment system



Injection molding machinery



Measurement and Control field

Product Features

| Range | Accuracy | Output | Electrical Connection | Process Connection |
|---|----------|------------------------------|---|---|
| -100kPa to 100MPa gauge, negative and absolute pressure | 0.2%FS | 4...20mA、0...5V、0...10V etc. | Customizable forms of Hirschmann connectors, aviation connectors, waterproof plugs, etc | G1/4, M20, NPT1/2 and other types are abundant, covering the vast majority of interface forms |

Product Description

This product is a pressure transmitter with an oil filled core body. As a pressure sensor, the oil filled core body has high precision, high stability, excellent long-term stability and reliability. Widely used in pumps and compressors, hydraulic/pneumatic systems, shipbuilding, various 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.

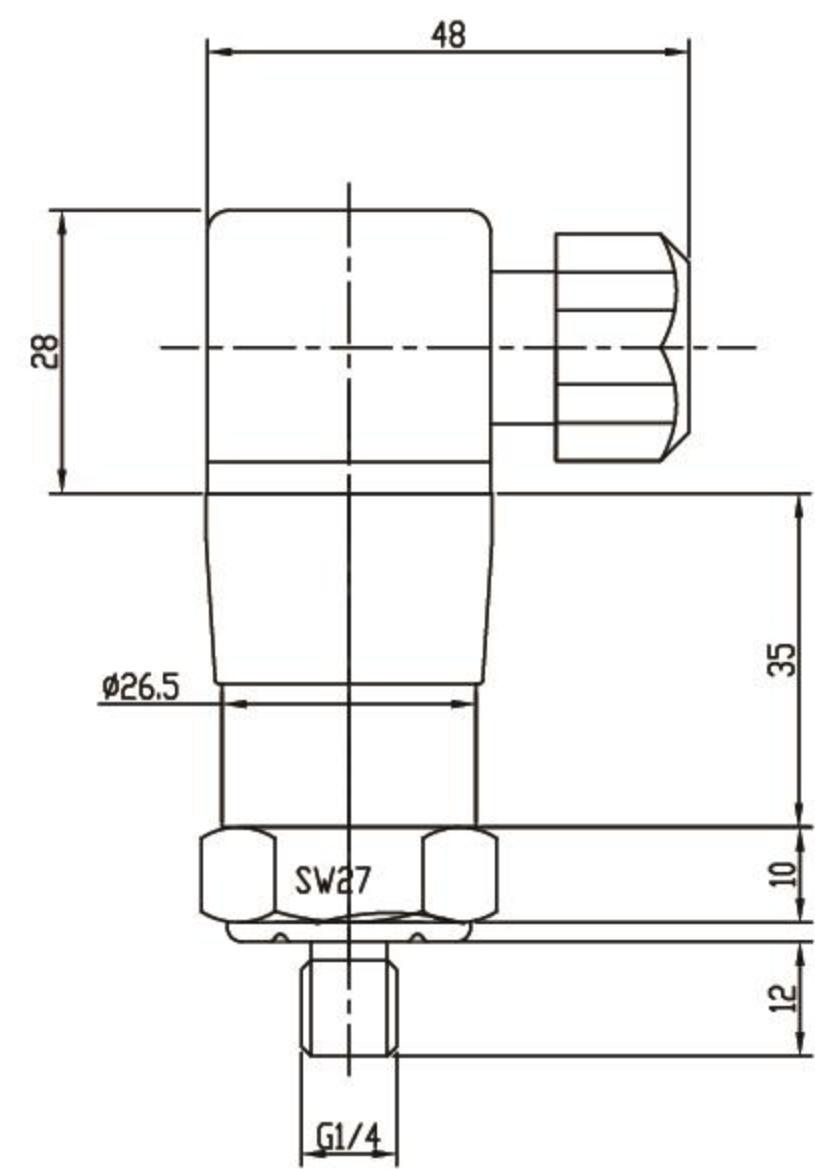
Compact structure, compact installation, stainless steel interface ensuring durability, IP65 protection level (IP68 waterproof type) and intrinsic safety certification ensure product adaptable of various environmental and climatic conditions.

Technical Parameter

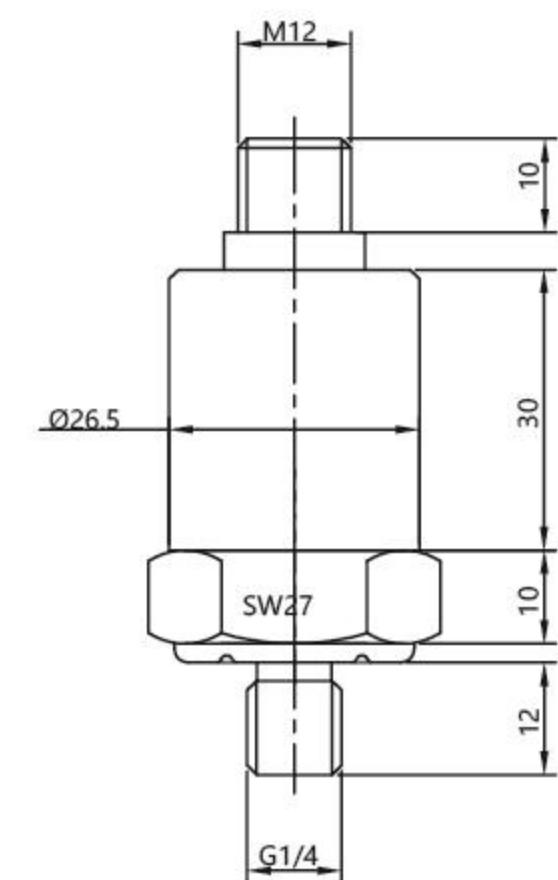
| | |
|------------------------|---|
| Application Scenarios | Gauge, Absolute and Negative pressure |
| Measurement Range | -0.1MPa.....0.....100MPa |
| Comprehensive Accuracy | 0.2%FS |
| Overpressure | 2 times (\leq 16MPa); 1.5 times ($>$ 16MPa) |
| Response time | <5ms (rising to 90% FS) |
| Medium temperature | -40.....125°C |
| Operating temperature | -40.....125°C |
| Supply Voltage | DC24V (10...30 V DC)、DC3...5V(I2C) |
| Output signal | 4...20mA、0...5V、0...10V、Modbus、HART |
| Sealing level | IP65, IP68 (Waterproof type) |
| Connection material | SS 304, SS 316, anti-corrosion materials |
| Diaphragm material | SS 316 |
| Stability performance | 0.2% FS/year |
| Process connection | Thread, flange |
| Electrical interfaces | Shielded wire, aviation connector, tightening nut, Hirschmann, Parker connector |

Specifications and Dimensions (Unit: mm)

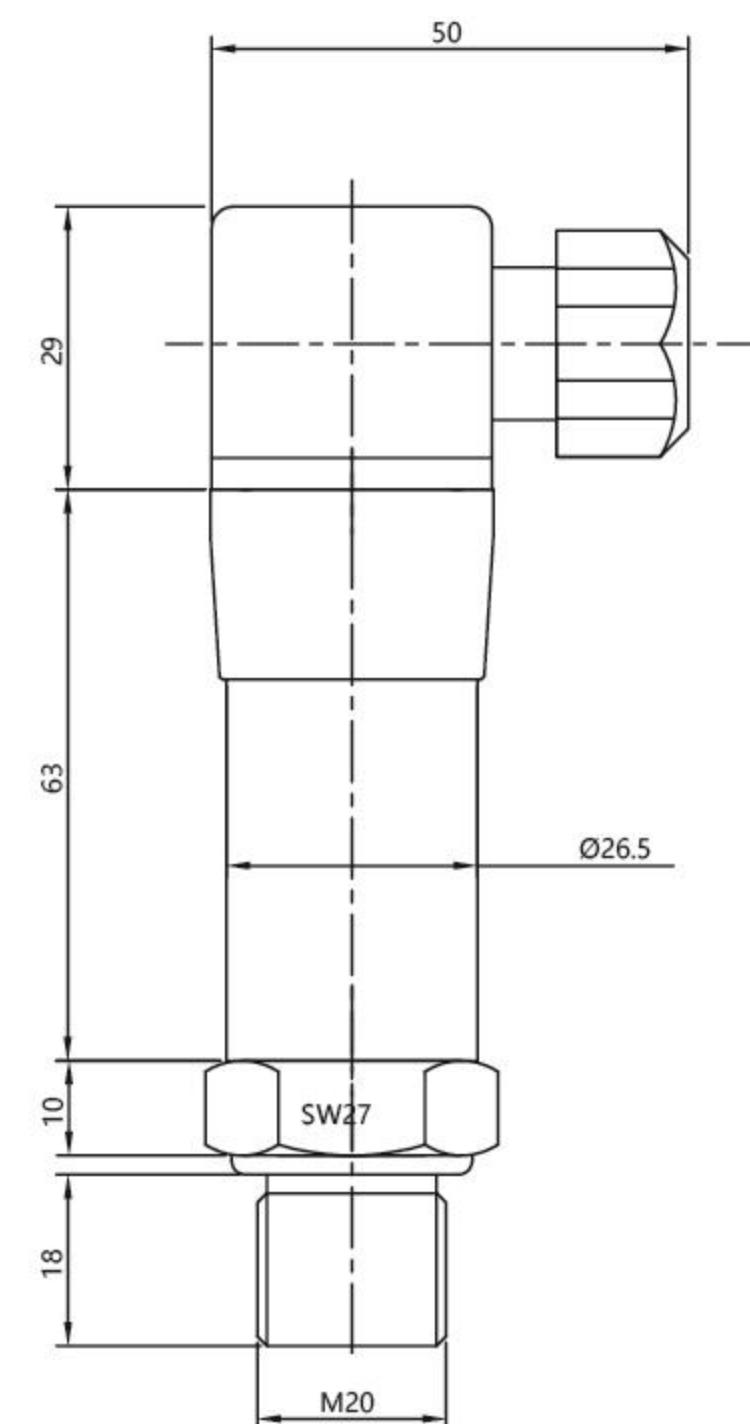
Exquisite - Hirschmann



Exquisite Type-M12



Standard - Hirschmann



Electrical Connections

4-20mA current output

| Hirschmann | Pin | Description | M12 | Pin | Description |
|------------|-----|-------------|-----|-----|-------------|
| | 1 | PS + | | 1 | PS + |
| | 2 | PS - | | 2 | PS - |
| | 3 | N/C | | 3 | N/C |
| | 4 | ⏚ | | 4 | N/C |

0-10V, 0-5V voltage output

| Hirschmann | Pin | Description | M12 | Pin | Description |
|------------|-----|-------------|-----|-----|-------------|
| | 1 | PS + | | 1 | PS + |
| | 2 | PS -/V - | | 2 | PS -/V - |
| | 3 | V + | | 3 | V + |
| | 4 | ⏚ | | 4 | N/C |

Abbreviation

| | |
|------|--------------------------------|
| PS + | Positive power supply terminal |
| PS - | Negative power supply terminal |
| V + | Positive voltage output |
| V - | Negative voltage output |

Certification

A Common
B NEPSI Ex ia IIC T4

Shell+Communication interface

A Standard (stainless steel)+M12 connector
B Standard (stainless steel)+Hirschmann connector
D Standard (stainless steel)+aviation connector
E Standard (stainless steel)+waterproof type
H Exquisite (stainless steel)+Hirschmann connector
J Exquisite (stainless steel)+M12 connector
K Exquisite (stainless steel)+waterproof type
L Exquisite (stainless steel)+Parker connector
1 Integrated+M12 connector

2 Integrated+Hirschmann Output

3 Integrated+Aviation 1 4-20mA
4 Integrated+Waterproof 2 4-20mA + Display
Y Customized 3 0-10V
4 0-10V + Display
5 Modbus
6 Modbus + Display
7 4-20mA Hart
8 4-20mA Hart + Display
D I2C Communication

Range

MA 10kPa
BA 40kPa
BB 100kPa
BW 200kPa
BC 400kPa
BD 600kPa
BE 1MPa
BF 1.6MPa

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

BH 4MPa Type G Gauge GQ NPT3/4
BI 10MPa A Absolute GR G1
BM 20MPa M Negative GS G2
BN 30MPa
BK 40MPa
BL 60MPa
BR 100MPa
YY Customized

GT NPT1/4
NT NPT1/4 F Female
YY Customized

10 20 30 40 50 60

PK400 Universal Pressure Transmitter

Selection rules:

Requirements: intrinsic safety certification, Hirschmann connector, 4-20mA output, 1MPa gauge pressure, and G1/4 thread

Select model: PK400-BB1BEGGO