



BANNING

PRESSURE TRANSMITTER

PD1610



BANNING

DESCRIPTION

The internal differential pressure sensitive core of PD1610 differential pressure transmitter adopts imported high-stability special differential pressure chip, and the world's original single-crystal silicon double-beam suspension design, which achieves the world's leading high precision, ultra-high overload performance and superior stability , The built-in signal processing module realizes the perfect combination of static pressure and temperature compensation, and can achieve extremely high accuracy and long-term stability under a wide range of static pressure and temperature changes.

CHARACTERISTICS

- Imported ultra-high stability, high-precision special differential pressure chip
- Realize accurate measurement of Pa-level differential pressure signal
- Static pressure error within 0.1%FS/10MPa
- Patented double overload protection diaphragm design
- One-way overpressure limit, can reach 40MPa
- Built-in high-precision temperature sensor, with intelligent temperature compensation
- Positive and negative pressure fully symmetrical structure, no sealing ring
- All-welded compact design, small but powerful

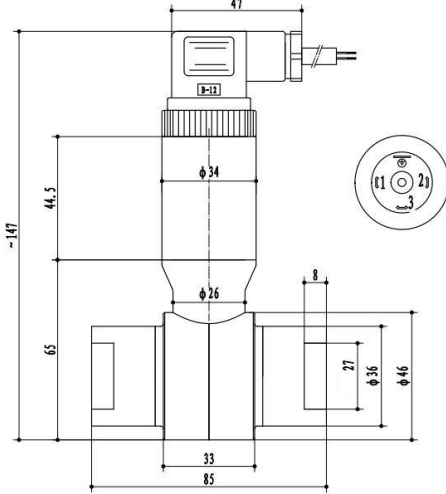
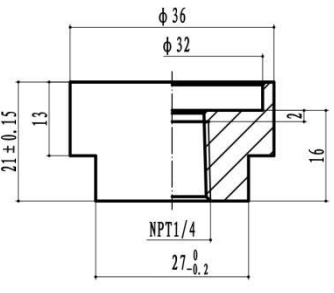
PERFORMANCE

Parameter	PD1610
Measuring range	0 ~ 2kPa... 3MPa
Supply voltage	10 ~ 28VDC
output signal	4 ~ 20mA+RS485-MODBUS protocol
Operating temperature	-40 ~ 85°C
Storage temperature	-40°C ~ 125°C
Compensation temperature	-20 ~ 80°C
Temperature drift	0.2% (-20 ~ 80°C)
Overload pressure	16MPa、25MPa、40MPa
Maximum static pressure	40MPa
Mechanical vibration	20g (20 ~ 5000Hz)
Shock	100g (11ms)
Comprehensive accuracy	0.2%
Insulation	100MΩ/250VDC(200MΩ/250VDC)
Response time	≤ 1ms (up to 90%FS)
Long-term stability	± 0.1%FS/year
Protection level	IP65
Material	Full stainless steel
Media compatible	Various media compatible with 316L stainless steel

APPLICATION

- Mobile tank monitoring
- Thermal energy meter manufacturing

EXTERNAL STRUCTURE

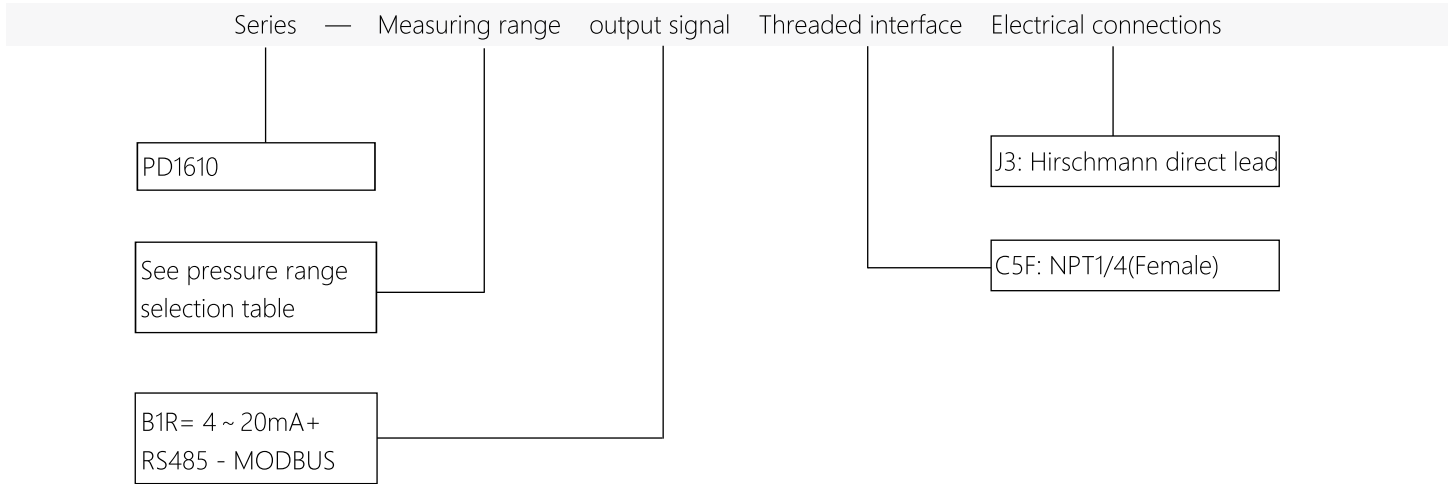
Type	PD1610
J15: Hirschmann direct lead	
Wiring	Hirschmann direct lead
Threaded interface	
Thread code	C5F: NPT1/4 (Female)
Dimensions Unit: mm	

PRESSURE RANGE SELECTION TABLE

Range code	Measuring range
0.6K	0 ~ 0.6kPa
1K	0 ~ 1kPa
1.5K	0 ~ 1.5kPa
2.5K	0 ~ 2.5kPa
6K	0 ~ 6kPa
10K	0 ~ 10kPa

Range code	Measuring range
30K	0 ~ 30kPa
40K	0 ~ 40kPa
100K	0 ~ 100kPa
250K	0 ~ 250kPa
1M	0 ~ 1MPa
3M	0 ~ 3MPa

NOMENCLATURE



举例: PD1610-100KB1RC5FJ3

It indicates that the series is PD1610, the range is 0 ~ 100kPa, the output is 4 ~ 20mA+RS485-MODBUS protocol, the interface thread is NPT1/4 female, and the electrical connection is hirschmann directly lead.

NOTE:

- (1) Do not touch the diaphragm with hard objects, it will damage the isolation diaphragm.
- (2) Please read the product manual carefully before installation, and check the relevant information of the product.
- (3) Wiring strictly in accordance with the wiring method, otherwise it will cause product damage and other potential failures.
- (4) Incorrect use can cause danger and personal injury.

DISCLAIMER

⚠ Warning

LIFE OR PROPERTY RISK

- Please ensure that this product has been designed as part of whole system and already considered related risks, make sure the product has the correct ratings and is designed based on the entire system. It must not be used when applications related to serious life or property damage risks.

Failure to follow this instruction can result in death or serious injury.

⚠ Warning

PERSONAL INJURY

- DO NOT USE these products as safety or emergency stop devices or in any other application where failure of the product could result in personal injury.

Failure to follow this instruction can result in death or serious injury.

⚠ Warning

MISUSE OF DOCUMENTATION

- The information presented in this product sheet is for reference only. Do not use this document as a product installation guide.
- Complete installation, operation, and maintenance information is provided in the instructions supplied with each product.

Failure to follow this instruction can result in death or serious injury.

Warranty/Remedy

Banning warrants goods of its manufacture as being free of defective materials and faulty workmanship during the applicable warranty period. Banning's standard product warranty applies unless agreed to otherwise by Banning in writing; please refer to your order acknowledgment or consult your local sales office for specific warranty details. If warranted goods are returned to Banning during the period of coverage, Banning will repair or replace, at its option, without charge those items that Banning, in its sole discretion, finds defective. **The foregoing is buyer's sole remedy and is in lieu of all other warranties, expressed or implied, including those of merchantability and fitness for a particular purpose. In no event shall Banning be liable for consequential special, or indirect damages.**

While Banning may provide application assistance personally, through our literature and the Banning web site, it is buyer's sole responsibility to determine the suitability of the product in the application.

Specifications may change without notice. The information we supply is believed to be accurate and reliable as of this writing. However, Banning assumes no responsibility for its use.

SALES & SERVICE

Banning serves its clients through a worldwide network of sales offices, agents and distributors. For application assistance specifications, prices or names with the nearest authorized dealer, please contact your sales specialist or contact us directly:

Banning (Nanjing) Sensing Technology Co., Ltd.

Nanjing, Daqiao rth road #48 Huadongmall, building C3-1, 12th floor

TEL: 400-7181-886

TEL: 025-5829 5589



WeChat



Invoice

Official Website: www.banningsensor.com

Service Hotline : 400-7181-886

Official mailbox: sales@banningsensor.com

© 2019Banning (Nanjing) Sensing Technology Co., Ltd.

**INTEGRITY
INTERNATIONAL
INNOVATION**

BANNING