



BANNING

PRESSURE TRANSMITTER

PD610



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DESCRIPTION

PD610 differential pressure transmitter is assembled by OEM silicon piezoresistive differential pressure oil-filled core. The housing is made of stainless steel and has strong corrosion resistance. The two pressure connections are threaded and can be directly installed on the measuring pipe or connected through the impulse tube.

CHARACTERISTICS

- 316L stainless steel isolation diaphragm structure
- Measuring differential pressure
- Easy installation
- The product can adjust the zero point and full range externally
- With short circuit protection and reverse polarity protection
- Shock, vibration, electromagnetic compatibility

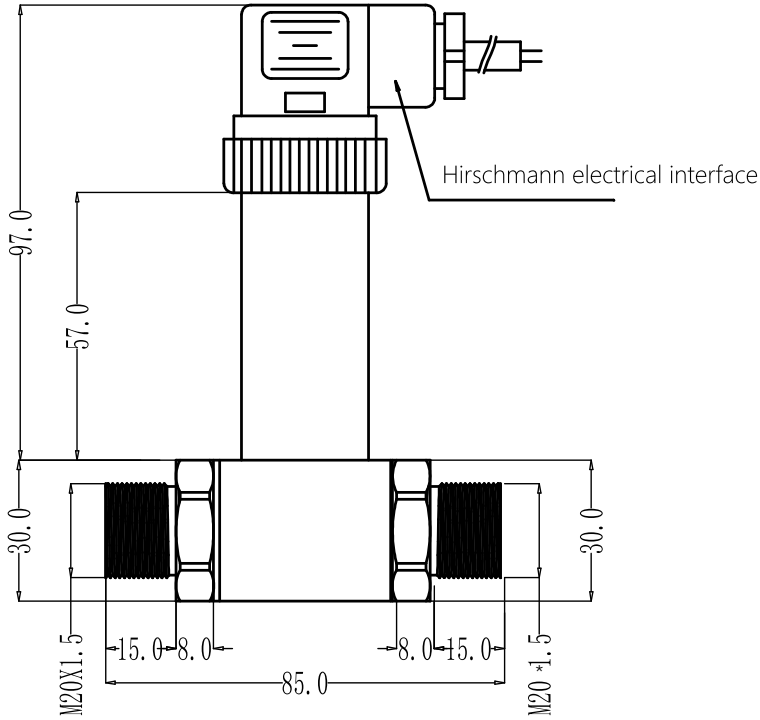
PERFORMANCE

Parameter	PD610
Scale range	0 ~ 20kPa...2.5MPa
Static pressure	20MPa(Max.)
Pressure type	Differential pressure
Power supply	24VDC、12VDC
Output signal	4 ~ 20mA、1 ~ 5V、0 ~ 5V
Working temperature	-20°C ~ 85°C
Medium temperature	-20°C ~ 85°C
Storage temperature	-40°C ~ 125°C
Zero temperature drift	± 1.5%FS (@-20°C ~ 85°C)
Sensitivity drift	± 1.5%FS (@-20°C ~ 85°C)
Pressure overload	150%FS
Mechanical vibration	20g (20 ~ 5000Hz)
Impact	100g (11ms)
Comprehensive accuracy	0.5 level
Insulation resistance	100MΩ/250VDC
Response time	≤ 1ms (rise to 90%FS)
Long-term stability	± 0.2%FS/year
Protection grade	IP65
Material	Stainless aluminum housing; Isolation diaphragm 316L
Medium compatible	Compatible with 316L stainless steel
Static pressure influence	± 0.5% FS (@1MPa)

APPLICATION

- Equipment supporting, scientific experiments, precision instruments, water supply and drainage, power plant differential pressure, flow ...

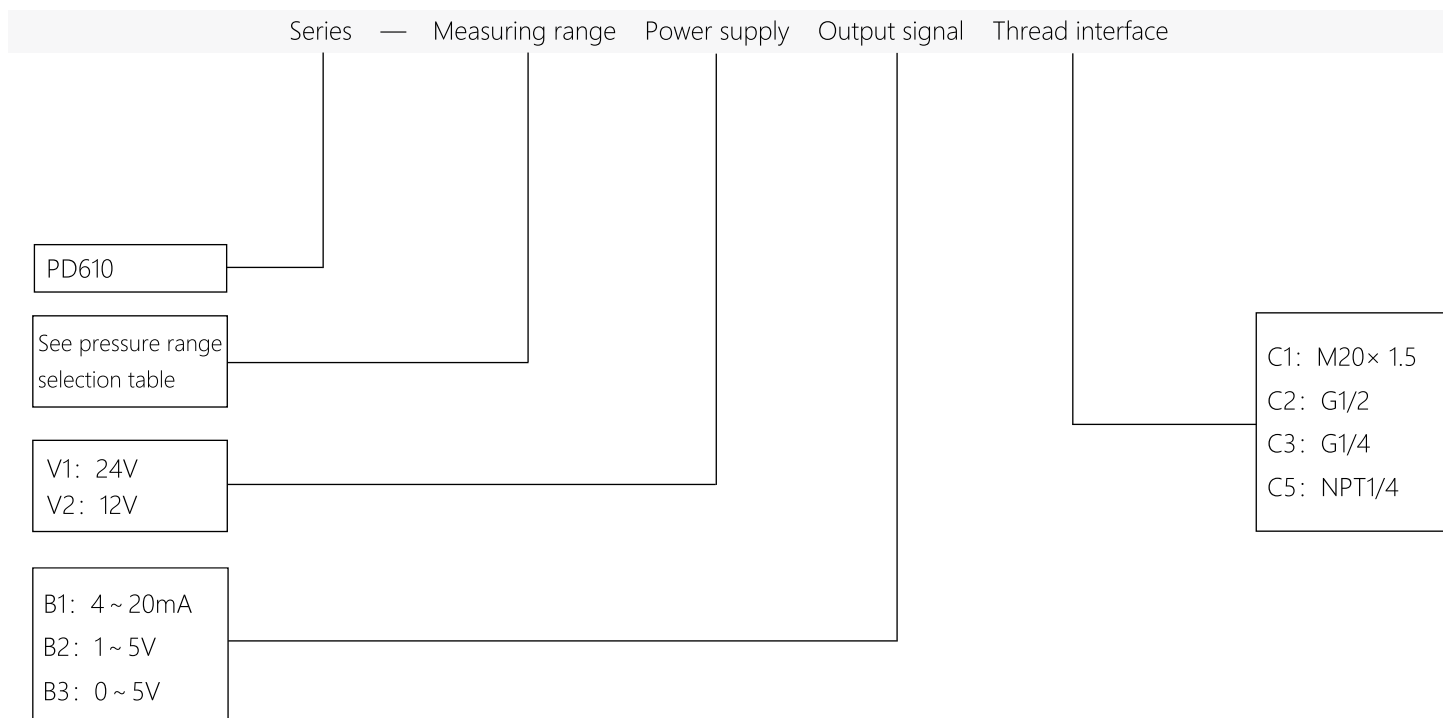
EXTERNAL STRUCTURE

Type	PD610
Dimensions Unit: mm	 <p>The drawing shows a side view of the PD610 sensor. The total height is 97.0 mm. The distance from the top of the sensor to the top of the electrical interface is 57.0 mm. The diameter of the main body is 30.0 mm. The distance between the two M20x1.5 ports is 85.0 mm. The distance from the center of each port to the edge of the main body is 15.0 mm. The distance from the center of each port to the center of the main body is 8.0 mm. The electrical interface is labeled 'Hirschmann electrical interface'.</p>
Wiring (Current output)	Pin 1: Power + Pin 2: current output
Wiring (Voltage output)	Pin 1: Power + Pin 2: Common Ground Pin 3: voltage output

PRESSURE RANGE SELECTION TABLE

Code	Measuring range	Code	Measuring range	Code	Measuring range
W1	0 ~ 10kPa/0.01MPa	W6	0 ~ 160kPa/0.16MPa	W11	0 ~ 1.6MPa
W2	0 ~ 20kPa/0.02MPa	W7	0 ~ 250kPa/0.25MPa	W12	0 ~ 2.5MPa
W3	0 ~ 35kPa/0.035MPa	W8	0 ~ 400kPa/0.4MPa	Please select according to product range	
W4	0 ~ 70kPa/0.07MPa	W9	0 ~ 600kPa/0.6MPa		
W5	0 ~ 100kPa/0.1MPa	W10	0 ~ 1.0MPa		

NOMENCLATURE



FOR EXAMPLE: PD610-W10V1B1C1

The series is PD610, pressure range is 0 ~ 1.0MPa, power supply is 24V, output signal is 4 ~ 20mA, and thread interface is M20 × 1.5.

NOTE

- (1) In order to ensure the safe and reliable operation of the transmitter, it is recommended to install a three valve group between the measured point and the transmitter to ensure that the measured medium is slowly and evenly added to the positive and negative pressure chambers of the differential pressure transmitter.
- (2) During installation, it is recommended that the pressure connections at both ends be level to minimize the impact of the installation position on the product.
- (3) When selecting, please note that the static pressure of the measured pressure point does not exceed 20MPa, and the overpressure on the positive and negative pressure chambers of the transmitter cannot exceed the product's specified value.

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:

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