



**BANNING**  
**PRESSURE TRANSMITTER**  
**PTM400G**



**BANNING**

## DESCRIPTION

PTM400G high-temperature pressure transmitter uses a high-temperature-resistant pressure sensor as the signal measurement element. The pressure of the measured medium is transmitted to the sensor through the heat dissipation structure on the transmitter. The high-precision signal processing circuit is located in the stainless steel housing and converts the sensor output signal into a standard.

## CHARACTERISTICS

- High temperature pressure chip
- With heat exchange plate design, high temperature resistance, applicable medium temperature up to 300°C
- Rugged and well-sealed aluminum alloy junction box for outdoor installation
- Provides a wide range of pressure ranges from low to medium pressure and high pressure
- LCD display optional
- Sensor and pressure interface are fully welded structure, impact resistance, vibration resistance

## PERFORMANCE

Parameter	PTM400G
Scale range	-100kPa... 0 ~ 20kPa... 100MPa
Pressure type	Gauge, Absolute, Sealed
Power supply	24V、 12V
Output signal	4 ~ 20mA、 1 ~ 5V、 0 ~ 5V、 0.5 ~ 4.5V、 0 ~ 10V
Working temperature	-20°C ~ 85°C
Medium temperature	-40°C ~ 300°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)
Comprehensive accuracy	0.5、 0.3 level optional
Impact	100MΩ/250VDC
Response time	≤ 1ms (rise to 90%FS)
Long-term stability	± 0.2%FS/year
Protection grade	IP65
Material	Shell low copper aluminum alloy; Isolation diaphragm 316L
Medium compatible	Compatible with 316L stainless steel

## APPLICATION

- Industrial automation equipment, power generation, machinery manufacturing, petrochemicals, metallurgical manufacturing, steam and heat energy exchange, etc

# EXTERNAL STRUCTURE

Type	J1: 2088 Housing	J2: 2088 Housing with display
Dimensions unit: mm		
Wiring (Current output)		
Wiring (Voltage output)		

# THREAD INTERFACE

Type	C1: M20×1.5	C2: G1/2	C7: NPT1/2
Dimensions unit: mm			

# PRESSURE RANGE SELECTION TABLE

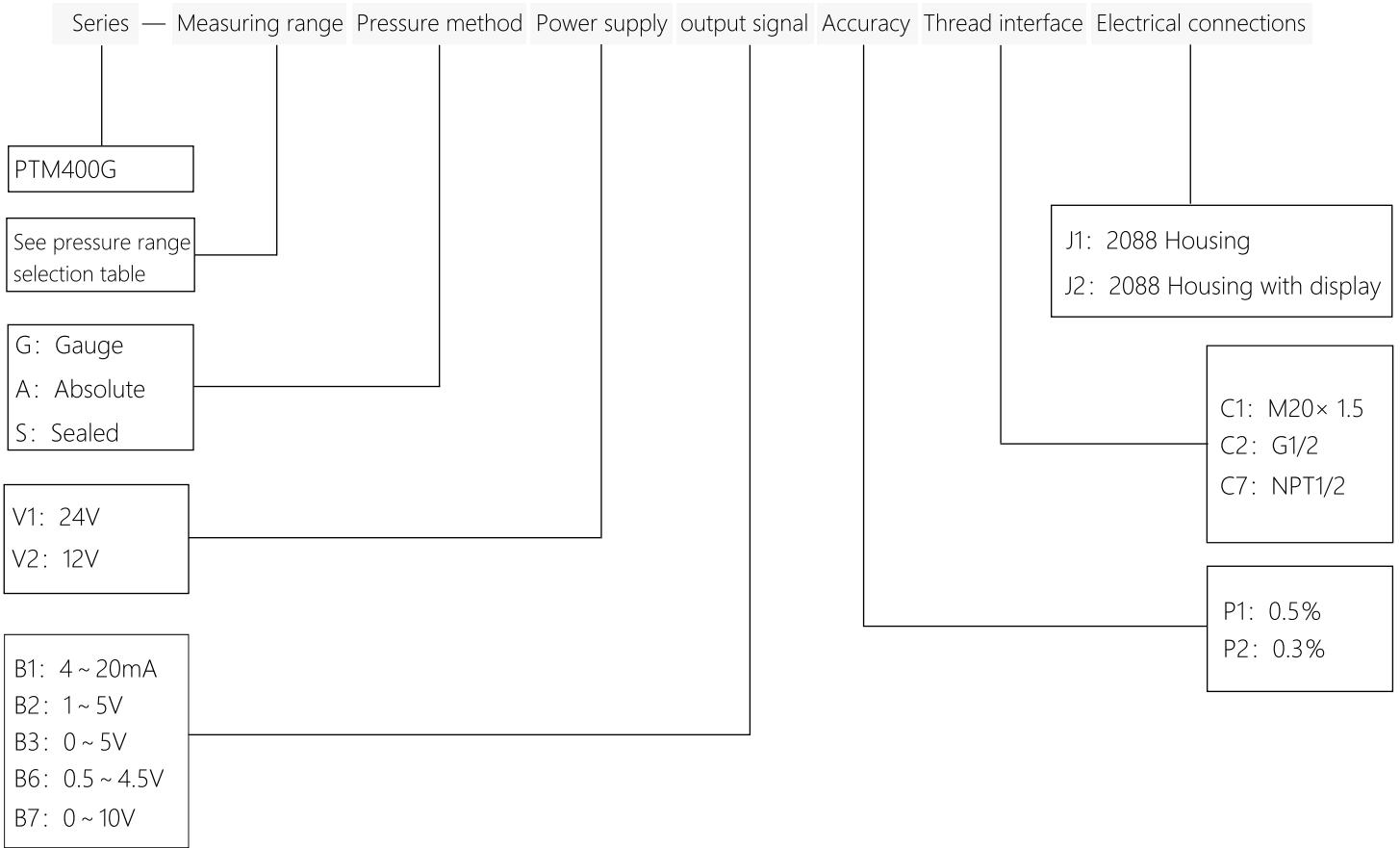
Code	Measuring range
W0	-100kPa~0kPa
W1	0 ~ 10kPa/0.01MPa
W2	0 ~ 20kPa/0.02MPa
W3	0 ~ 35kPa/0.035MPa
W4	0 ~ 70kPa/0.07MPa

Code	Measuring range
W10	0 ~ 1.0MPa
W11	0 ~ 1.6MPa
W12	0 ~ 2.5MPa
W13	0 ~ 6MPa
W14	0 ~ 10MPa

Code	Measuring range
W5	0 ~ 100kPa/0.1MPa
W6	0 ~ 160kPa/0.16MPa
W7	0 ~ 250kPa/0.25MPa
W8	0 ~ 400kPa/0.4MPa
W9	0 ~ 600kPa/0.6MPa

Code	Measuring range
W15	0 ~ 16MPa
W16	0 ~ 25MPa
W17	0 ~ 40MPa
W18	0 ~ 60MPa
W19	0 ~ 100MPa

## NOMENCLATURE



**FOR EXAMPLE:** PTM400G-W10GV1B1P1C1J1

The series is PTM400G, pressure range is 0 ~ 1.0MPa, pressure mode is gauge pressure, power supply is 24V, output signal is 4-20mA, accuracy is 0.5%, thread interface is M20 × 1.5, and electrical connection is 2088 shell.

## NOTE

- (1) The band display is divided into two types: digital tube display and liquid crystal display. Please specify in the order.
- (2) If there are special requirements for product appearance and performance parameters, our company can provide customization.

# 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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