



BANNING PRESSURE SWITCH PM710



BANNING

DESCRIPTION

PM710 is an intelligent digital display pressure measurement and control product integrating pressure measurement, display, output and control. The product has a fully electronic structure, and the front end uses a silicon piezoresistive pressure sensor. The output signal is amplified and processed by a high-precision, low-temperature drift amplifier, sent to a high-precision A/D converter, processed by a microprocessor, and displayed in the field. And output 2 switching values to detect the pressure of the control system.

CHARACTERISTICS

- High switching accuracy
- Adjustable response time
- NPN, PNP compatible, freely switchable
- Button adjustment, one click for quick zero adjusting, quick unit switching
- OLED display current pressure
- Node action with luminous tube, easy to observe

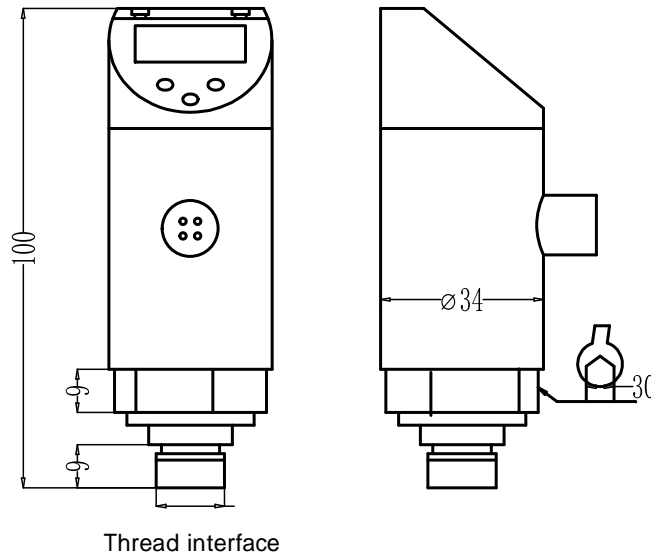
PERFORMANCE

Parameter	PM710
Scale range	0 ~ 10kPa... 100MPa
Overload capacity	150 ~ 300%FS
Accuracy	0.5%
Power supply	12 ~ 30V recommended 24V
Display mode	4-digit OLED display
Output mode	4~20mA + two switching values, NPN, PNP compatible
Load capacity	≤ 24V 1.2A
Power consumption	≤ 15mA
Working temperature	-25°C ~ 80°C
Storage temperature	-40°C ~ 100°C
Response time	≤ 20ms
Insulation resistance	100MΩ/250VDC
Protection grade	IP65
Shell material	304 stainless steel
Media compatible	Wetted diaphragm 316L stainless steel, pressure joint 304 stainless steel

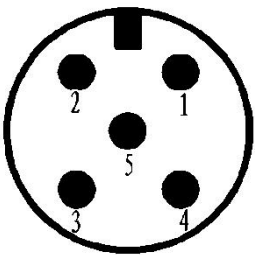
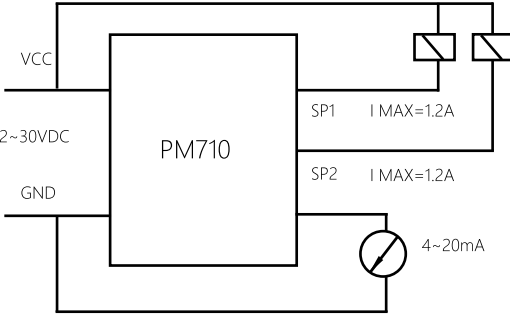
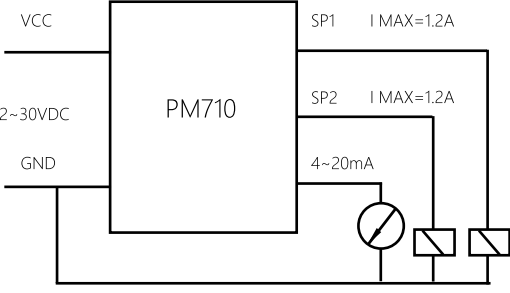
APPLICATION

- Hydropower
- Urban water supply
- Accurate measurement and control of fluid pressure
- Chemical industry
- Research

DIMENSIONS



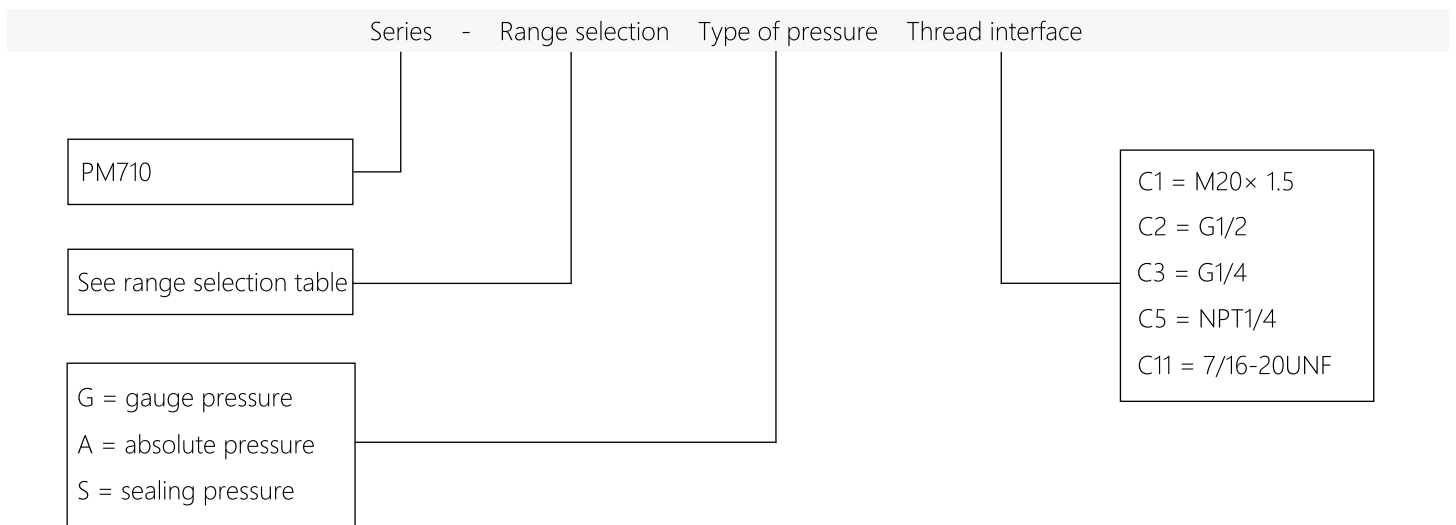
WIRING

M12 × 1 aeronautical plug body	Definition of wiring	Wiring diagram
	<ul style="list-style-type: none"> 1: VCC (power+) Brown 2: GND(power-) blue 3: SP1 (switch1) black 4: SP2 (switch2) White 5: 4~20mA gray 	<div style="text-align: center;">  <p>NPN output wiring diagram</p> </div> <hr/> <div style="text-align: center;">  <p>PNP output wiring diagram</p> </div>

RANGE SELECTION TABLE

Range code	Pressure type	Measuring range	Overload pressure	Burst pressure	Remark
10K	G	0 ~ 10kPa	300%FS	600%FS	
35K	G	0 ~ 35kPa	300%FS	600%FS	
70K	G	0 ~ 70kPa	300%FS	600%FS	
100K	G、A	0 ~ 100kPa	200%FS	500%FS	
250K	G、A	0 ~ 250kPa	200%FS	500%FS	
400K	G、A	0 ~ 400kPa	200%FS	500%FS	
600K	G、A	0 ~ 600kPa	200%FS	500%FS	
1.0M	G、A	0 ~ 1.0MPa	200%FS	500%FS	
2.5M	G、S	0 ~ 2.5MPa	200%FS	500%FS	
6M	S	0 ~ 6MPa	200%FS	400%FS	
10M	S	0 ~ 10MPa	200%FS	400%FS	
16M	S	0 ~ 16MPa	200%FS	400%FS	
25M	S	0 ~ 25MPa	150%FS	300%FS	
40M	S	0 ~ 40MPa	150%FS	300%FS	
60M	S	0 ~ 60MPa	150%FS	300%FS	
100M	S	0 ~ 100MPa	150%FS	200%FS	

NOMENCLATURE



FOR EXAMPLE: PM710-1MGC1

The series is PM710; measuring range is 0~1MPa, pressure type is gauge pressure, thread interface is M20× 1.5.

ACCESSORIES

Name	Specification
Aviation plug female	Five core aviation M12 female plug with 2 meters cable

NOTE

- When selecting, please pay attention to the compatibility between the tested medium and the product contact part.
- 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:

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

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