italmanometri s.r.l.

CS-PT623 Electronic Pressure Switch

1. Features and Applications

- Relay output
- Over-voltage protected
- Reverse voltage protected
- SS304 casing
- Pressure measurement for gas and liquid
- Switch point setting (separately for each)
- OLED display

CS-PT623 is an intelligent pressure switch combining pressure measurement, local display and control together. It uses advanced ARM industrial-grade MCU as core and high quality pressure sensor as sensing element. With well-designation and adjustment, CS-PT623 has quick reaction and good electro-magnetic compatibility for pressure control at the premise of accuracy. It can be widely used for industrial site pressure control in pump, hydraulic and pneumatic equipment. CS-PT623 is able to visually process the process pressure and switch contacts status through switch output, analog output and display screen. It has various output signals for different application. OLED display is very clear to read.

2. Technical Specifications

2.1 Pressure Ranges.....0 ... 0.07 to 0 ... 1000bar

2.2 Output..... Relay Output

2.3 Accuracy..... ±0.5%F.S default, ±0.25%F.S,±1%F.S optional

2.4 Operating Temperature..... -20~60°C

2.5 Long stability..... ±0.25%F.S/year

2.6 Proof Pressure..... 150%F.S

2.7 Pressure Port..... G1/4 default

2.8 Materials of Shell..... SS304

2.9 Supply Voltage (VCC).....15~30Vdc

2.10 Rated load for Relay..... Max 1000mA

2.11 Over-voltage Protection 32Vdc

2.12 Reverse Voltage Protection.....-30Vdc

2.13 Insulate Resistance..... ≥100MΩ@100Vdc

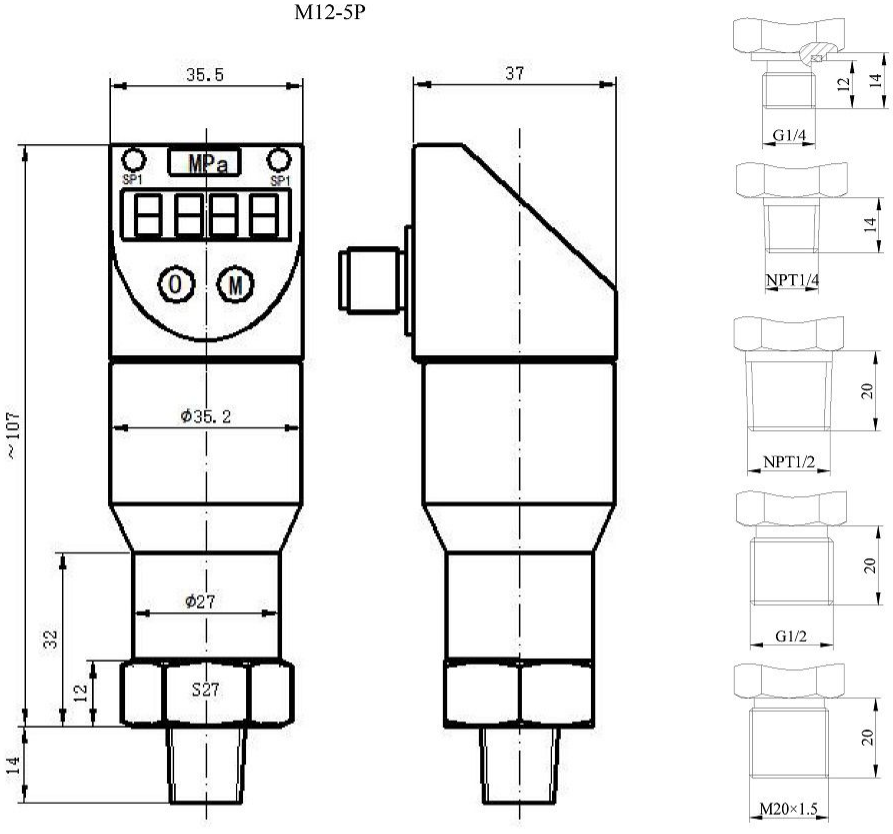
2.14 IP Rating..... IP65

2.15 Vibration.....10g, 5~2000Hz

2.16 Shock..... X/Y/Z, 20g,sine 11ms

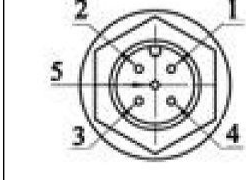
3. Dimensions (mm)

M12-5P



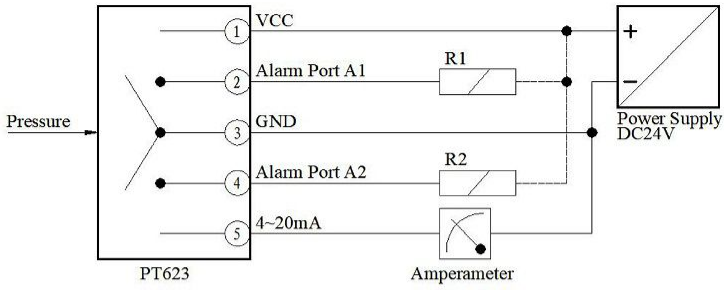
4. Electrical Connection

4.1 Connection



Pin	Define
1	VCC
2	Alarm Port A1
3	GND
4	Alarm Port A2
5	4~20mA Output

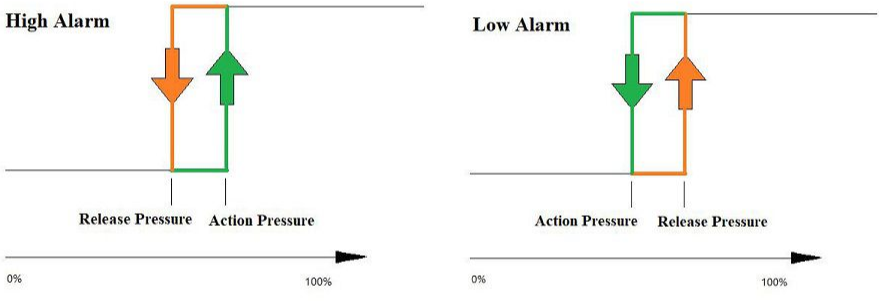
4.2 Schematic Diagram



The load R1 (or R2) should be connected between the alarm port A1 (or A2) and VCC port. The action pressure of each alarm port can be set separately.

★To make the pressure switch working well, the current output (port 5, 4~20mA) must be connected to GND or a current measuring port.

4.3 Switching Mode



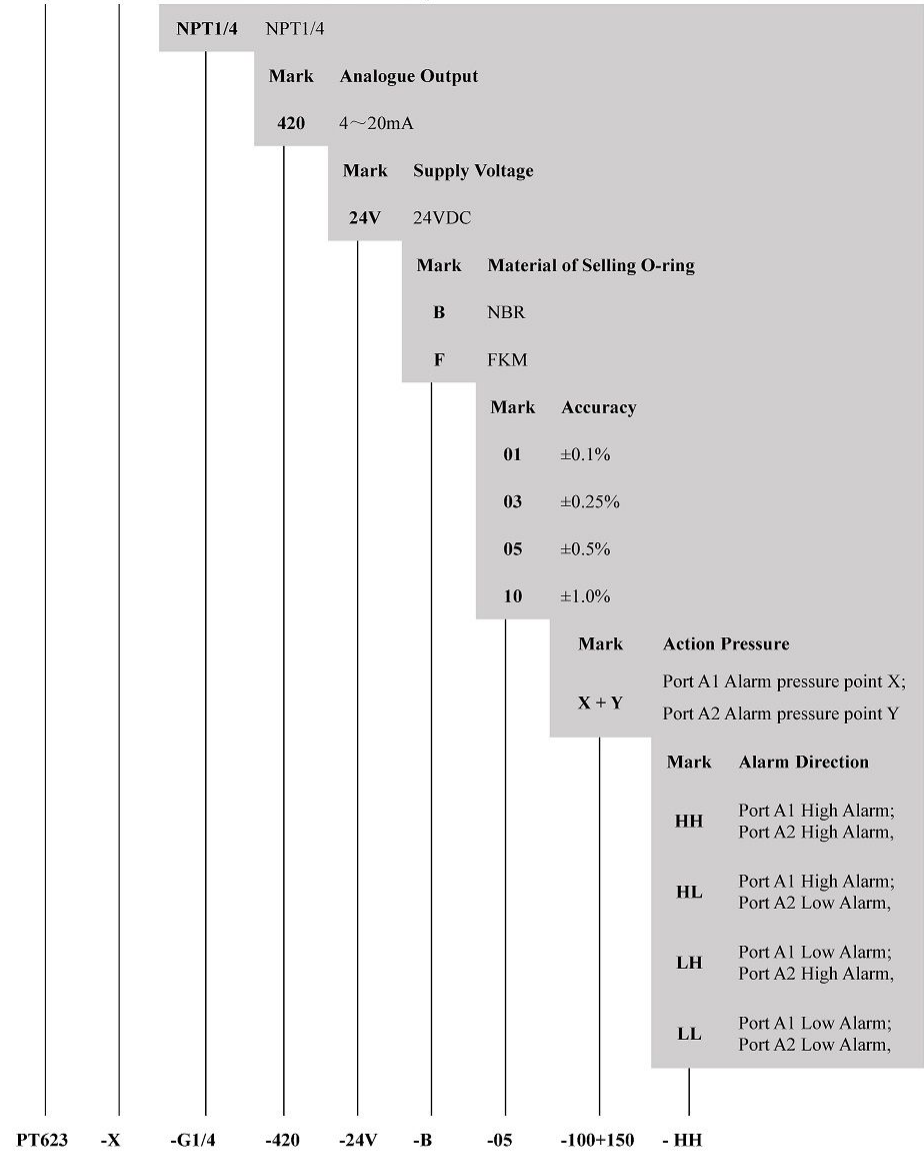
Return Stroke Error = | Action Pressure - Release Pressure |

4.4 Adjust

See the ***CS-PT623 Menu Instructions.pdf.***

5. Type Selected

PT623	Electronic Pressure Switch		
	Mark	**Pressure Range**	
	X	Actual Pressure Range	
		Mark	**Pressure Connection**
		G1/2	G1/2
		G1/4	G1/4
		M20×1.5	M20×1.5
		NPT1/2	NPT1/2



For example： CS-PT623-201-G1/4-M12 (5)-420-16-B-05-100+150-HH means:

CS-PT623 Electronic Pressure Switch,

Pressure Range (201):0~2bar (200kPa),

Pressure Port (G1/4): G1/4,

Electrical Connection(M12(5)): M12×1-5P，

Analogue Output(420): 4~20mA，

Supply Voltage(24V): 24VDC，

Material of Selling O-ring(B): NBR,

Accuracy(05): ±0.5%,

Action Pressure(100+150): Action pressure of alarm port 1 is 0.1bar (10 kPa),

Action pressure of alarm port 2 is 0.15bar (15 kPa),

Action Direction (HH): Alarm port 1 outputs when the pressure above its action pressure,

Alarm port 2 outputs when the pressure above its action pressure.

6. Notes

6.1 Only use the pressure switch to test the medium which have no corrosion to its housing and seal material.

6.2 Cannot use sharp tools to clean the pressure hole when the hole of the pressure switch is blocked. The pressure switch shall be removed from system and put the pressure hole part into the fluid which can dissolve the blocking substance.

6.3 The switch should be installed in locations where they are not easily to be impacted or trampled.

6.4 Use beyond the overload pressure of the switch may cause damages.

6.5 In order to protect the transmitter used at areas with many lightning, suggest adding a lightning protection device and reliably connecting the shield line to EARTH.

6.6 For other need contact factory.