



Model: CPK-500

Differential Pressure Switches

The sensor is diaphragm. The switches can be suitable for neutral gas such as air, and liquid medium such as lubricating oil, light fuel oil. The setpoint control range is adjustable and is from 0.012 to 7Mpa.

The product is qualified to **Q/YXBM810.3~2004**.



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Main Technical Performance

- Ambient temperature: -25℃—80℃
- Medium temperature: 0℃—80℃
- Housing protection class: IP65
- Vibrations: 10m/s²
- Repeatability Error: 1.5%
- Electrical rating: AC 220V 6A 600W (Resistance)
- Mounting position: With the pressure connector downward vertically(a slope of 15° is allowed)

Specifications

- **Switching pressure difference not adjustable**

Type	Order	Setting range Mpa (kPa)	Switching pressure difference KPa	Max working pressure Mpa	Number of switching cycles Z(1/min)	Connection (internal thread)	Pressure sensor materials		Drawing No.
							Housing	Diaphragm	
CPK-500	1	(12...55)	7	2.5	10	G1/4"	Brass	Polyimide	01
	2	0.02...0.35	10						
	3	0.03...0.1	17	3.4					
	4	0.03...0.4	17						
	5	0.03...0.7	21						
	6	0.06...0.2	21	7					
	7	0.1...1	25						
	8	0.1...0.4	3						
	9	0.24...2.6	50						
	10	0.4...1.0	140	14					
	11	0.7...7.0							



Setting of switching points:

Use Range spindle to set the upper or lower switching point on design with fixed switching pressure difference. The opposite one is determined by the fixed switching pressure difference.

On designs with adjustable switching pressure difference . Use Range spindle to set the lower switching point, then use Differential spindle to set the upper switching point by adding the desired switching pressure difference.

Turning the range spindle anticlockwise shifts both switching points upwards. Turning the differential spindle anticlockwise shifts only the upper switching point upwards, i.e. the switching pressure difference (distance between the upper and lower switching points) increases.

Example :

Switching differential pressure range is from 0.02 to 0.35Mpa

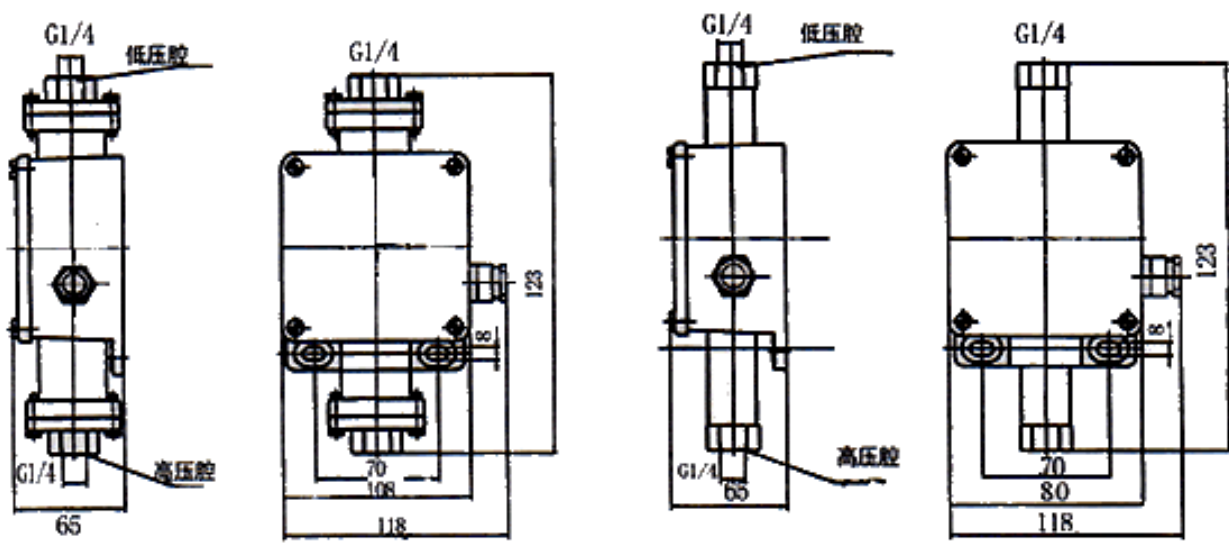
Upper switching point is 0.02Mpa

Switching difference is 0.01Mpa

Lower switching point is 0.19Mpa

To set precise switching points a pressure gauge is required.(The pressure switch is a switching and regulating device and not a measuring instrument even if has a scale to assist in the setting.). Switches can be adjusted even during operation. Range- and differential spindle are provided with a releasable detent; switch can also be leadsealed.

Dimensional drawings Unit: mm





Switch selection and mounting instructions

Off-current can not exceed the rating.

If the controller is set up outdoor, it should be pretended from dramatic changes in ambient temperature, the sun's radiation, corrosive gases or water infiltration.

For liquid media with pressure peaks and/or pulsating pressure, install surge damper upstream to eliminate scattering of switching points and excessive wear, possible failure of differential setting.

Installation of pressure interface should be gripping the outer hexagonal interface controller interface Department, to prevent the controller shell with high and low voltage connector came loose, affecting controller performance.

High and low voltage interface can not be reversed, otherwise the controller does not move.