

# GPS100Series

# Air Pressure Switch GPS100 Series

#### Application:

GPS100Series pressure switches are especially designed for high volume OEM market. Typical applications include boilers, hot water heaters, HVAC and other industrial equipments.

These switches could be customized set points and can be used to sence positive, negative or differential air pressure. A sensitive high reliability snap action switch is used as the

A sensitive high reliability snap action switch is used as the main switching element. The snap action switch can provide a high switching capability up to 16A 125/250VAC.

#### Specifications Set Point:

Set-Point Range: 10-1500Pa Operating Pressure Range: 25-1500Pa Switch Pressure Range: 10Pa Min Fixed set-point calibrated in factory.

### Maximum Pressure Allowed: 4000pa.

Switch Rating:
0.1A 125/250VAC, 3A 125/250VAC
5A 125/250VAC, 16A 125, 250VAC
(Resistive Load)
Switching Element:
Snap Action Switch
Circuit Configuration
SPDT, SPST-NC, SPST-NC
Measured Media: Air
Operating Temperature: -40~+90° C

# Installation&Sample Line Connection

### Mounting:

Always mount with the diaphragm in vertical plane in order to maintain the specified operating point fixed in the factory.

Avoid mounting with sample-line connections directed upward.

#### Positive Pressure Sensing Only:

Connect the sample-line to  ${\rm H}$  while  ${\rm L}$  remains open to the atmosphere.

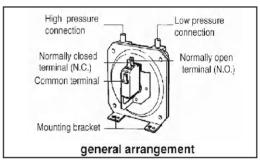
## Negative Pressure Sensing Only:

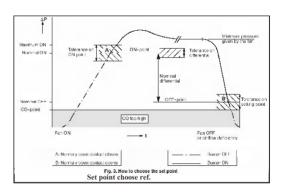
Connect the sample-line to  $\boldsymbol{L}$  while  $\boldsymbol{H}$  remains open to the atmosphere.

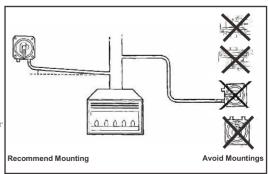
#### Differential Pressure Sensing:

Connect the higher pressure sample line to  ${\rm H}$  and the lower pressure samples-line to  ${\rm L}.$ 



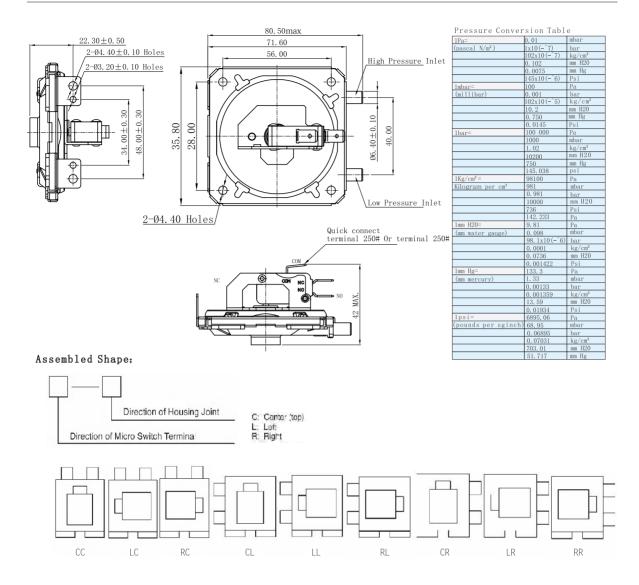






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# GPS100 Series Air Pressure Switch Ordering Instruction

GPS100	39	90	CC	1	С	Z	G	L
Switch Type	Off Pressure Set Point	On Pressure Set Point	Assembled Shape	Electrical Rating	Terminal Type	Circuit Code	Color of Micro Switch	Pressure Type
GPS100 Series Air Pressure Switch	According to customer's requirements	According to customer's requirements	Refer to "Assembled Shape"	1 <0.1A	6.30x0.80mm 0.250"x0.032" 250#Quick Connect Terminals	c spst-nc	G Grey	H Positive Pressure
				2 ≥0.1A and≤5A	4.70x0.5mm 0.187"x0.020" 187#Quick Connect Terminals	P SPST-NO	B Black	L Negative Pressure
				3 >5A and≤16A		z SPDT		
				4 >16A				

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