

# PRESSURE SWITCH

DK's pressure switches are designed from Vacuum to pressure. The most important component for controlling pressure is the sensing element. Pressure sensors for both metallic and elastomeric are suitable for most applications.

Pressure sensors are normally bellows, diaphragms and piston. This works on force balance principle. Media pressure on the sensing element contracts the force of the range spring (adjustable by the adjusting nut), which moves the piston shaft only a few thousandths of an inch to directly actuate the electrical snap action-switching element.

## SPECIAL FEATURES:

- ❑ High repeatability
- ❑ Narrow Dead Band
- ❑ High Over range and proof pressures
- ❑ Field adjustable or factory preset
- ❑ Rugged simple, versatile, reliable
- ❑ Weather tight
- ❑ Vibration effect minimum
- ❑ Wide adjustable dead band
- ❑ Minimum temperature influence



## TECHNICAL SPECIFICATION:

Process Materials	: 316 SS, 304 SS, Teflon, etc.
Enclosure	: Cast Aluminum, weatherproof as per IP-66.
Sensor	: Bellow, Diaphragm, Piston
Process Connection	: 1/2" or 1/4" NPT(F), other sizes as per process requirement
Switching	: Snap acting Micro Switch
Contact Form	: NO + NC – SPDT; 2 NO + 2 NC – 2 SPDT OR 2 NO + 2 NC - DPDT
Contact Rating	: 5A, 230 V AC, 0.25 A, 220 V DC, 15A, 125 / 250 V AC etc.
Electrical Connection	: 3/4" ET, 1" ET, 1/2" NPT, 3/4" NPT, 1" NPT, plug in socket, etc.
Max. Working Temperature	: 200° C for S.S., 75° C for Neoprene Diaphragm
Repeatability	: ± 0.5% of FSR
Scale Accuracy	: ± 5% of FSR
Static Pressure	: 150% of FSR
Mounting	: Surface mounting / Pipe Mounting / Field.



**D. K. Instruments Pvt. Ltd.**

An ISO 9001:2008 Certified Company

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## RANGE SELECTION TABLE

Code	Adjustable Range	Dead band.
02R	0.2 - 2 Kg / cm <sup>2</sup>	0.05 - 0.4 Kg / cm <sup>2</sup>
04R	0.4 - 4 Kg / cm <sup>2</sup>	0.10 - 0.50 Kg / cm <sup>2</sup>
06R	0.6 - 6 Kg / cm <sup>2</sup>	0.20 - 0.60 Kg / cm <sup>2</sup>
10R	1.0 - 10 Kg / cm <sup>2</sup>	0.40 - 0.80 Kg / cm <sup>2</sup>
16R	1.6 - 16 Kg / cm <sup>2</sup>	0.60 - 1.6 Kg / cm <sup>2</sup>
20R	2.0 - 20 Kg / cm <sup>2</sup>	0.8 - 2.0 Kg / cm <sup>2</sup>
25R	2.5 - 25 Kg / cm <sup>2</sup>	1.0 - 2.5 Kg / cm <sup>2</sup>

## ORDERING INFORMATION

Code	Type
PS	Pressure Switch.
DPS	Differential Pressure Switch.

  

Code	Range
02R	0.2 - 2 Kg/cm <sup>2</sup> (please refer to the Range Selection table)
04R	0.4 - 4 Kg/cm <sup>2</sup> (please refer to the Range Selection table)
06R	0.6 - 6 Kg/cm <sup>2</sup> (please refer to the Range Selection table)
10R	1.0 - 10 Kg/cm <sup>2</sup> (please refer to the Range Selection table)
16R	1.6 - 16 Kg/cm <sup>2</sup> (please refer to the Range Selection table)
20R	2 - 20 Kg/cm <sup>2</sup> (please refer to the Range Selection table)
25R	2.5 - 25 Kg/cm <sup>2</sup> (please refer to the Range Selection table)

  

Code	Wetted Materials
A	316 SS
B	304 SS
C	Other

  

Code	Process Connection
1	½" NPT (F)
2	¼" NPT (F)
3	Other

  

Code	Electronic Connection
E	¾" NPT (F)
F	½" NPT(F), standard
P	Plug & Socket

  

Code	Switch Form
1	One SPDT
2	Two SPDT (one setting point)
3	Gold Contact (SPDT)
4	Hermetically Sealed (SPDT)
5	One DPDT

  

PS	06R	B	1	F	2	<b>Complete Ordering Code</b>
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