

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	: ½" or ¼" 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	: ¾" ET, 1" ET, ½" NPT, ¾" 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
Switching Accuracy	: ± 1% of FSR
Static Pressure	: 150% of FSR
Mounting	: Surface mounting / Pipe Mounting / Field.

Marketed By:



D. K. Instruments Pvt. Ltd.

An ISO 9001:2008 Certified Company

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Cat. No. 0018-1

RANGE SELECTION TABLE

Code	Adjustable Range	Code	Adjustable Range	Code	Adjustable Range
01R	0.1 - 1 Kg / cm ²	032R	2 – 32 kg/cm ²	300R	30 – 300 mm WC
04R	0.4 - 4 Kg / cm ²	035R	2 – 35 kg/cm ²	500R	50 – 500 mm WC
06R	0.6 - 6 Kg / cm ²	040R	4 – 40 kg/cm ²	800R	80 – 800 mm WC
10R	1.0 - 10 Kg / cm ²	060R	3 – 60 kg/cm ²	1000R	100 – 1000 mm WC
16R	1.6 - 16 Kg / cm ²	070R	4 – 70 kg/cm ²	1500R	150 – 1500 mm WC
20R	2.0 - 20 Kg / cm ²	100R	5 – 100 kg/cm ²	2000R	200 – 2000 mm WC
25R	2.5 - 25 Kg / cm ²	210R	11 – 210 kg/cm ²	2500R	250 – 2500 mm WC
XXXR	OTHER RANGE				

ORDERING INFORMATION

Code	Type					
PS	Pressure Switch.					
DPS	Differential Pressure Switch.					
Code	Range					
01R	0.1 - 1 Kg/cm ² (please refer to the Range Selection table)					
04R	0.4 - 4 Kg/cm ² (please refer to the Range Selection table)					
06R	0.6 - 6 Kg/cm ² (please refer to the Range Selection table)					
10R	1.0 - 10 Kg/cm ² (please refer to the Range Selection table)					
16R	1.6 - 16 Kg/cm ² (please refer to the Range Selection table)					
20R	2 - 20 Kg/cm ² (please refer to the Range Selection table)					
XXXR	(please refer to the Range Selection table)					
Code	Wetted Materials					
A	316 SS					
B	304 SS					
C	SS 316 L					
D	MONEL					
E	SS 304 L					
F	OTHER					
Code	Process Connection					
1	½" NPT (F)					
2	¼" NPT (F)					
3	Other					
4	½" NPT (M)					
5	½" BSP (F)					
6	½" BSP (M)					
7	¼" NPT (M)					
8	¼" BSP (F)					
9	¼" BSP (M)					
Code	Electronic Connection					
E	¾" ET (F)					
F	½" NPT(F), standard					
G	¾" ET					
M	1" ET					
P	Plug & Socket					
O	Other					
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	Complete Ordering Code

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