

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

76/2, Selimpur Road, Dhakuria, Kolkata – 700 031.

Ph. No.: 91-33-2415 1310 / 2405 0944, Fax: 91-33-2415 2311.

E-mail: info@dkinstruments.com, Web Site: www.dkinstruments.com

Marketed By:

RANGE SELECTION TABLE

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

ORDERING INFORMATION

Code	Type					
PS	Pressure Switch.					
DPS	Differential Pressure Switch.					
	Code	Range				
	02R	0.2 - 2 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)				
	25R	2.5 - 25 Kg/cm ² (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	Complete Ordering Code



D. K. Instruments Pvt. Ltd.

An ISO 9001:2008 Certified Company

76/2, Selimpur Road, Dhakuria, Kolkata – 700 031.

Ph. No.: 91-33-2415 1310 / 2405 0944, Fax: 91-33-2415 2311.

E-mail: info@dkinstruments.com, Web Site: www.dkinstruments.com

Marketed By:

Differential Pressure Gauge
Filter clog Indicator
Flow Indicator



DIFFERENTIAL PRESSURE MONITORING : DK's Differential Pressure Instrument measures the difference in pressure at two Pressure zones in a system. Model GP-200 indicates the resultant differential Pressure [DP] directly on a single Gauge dial . This can also be equipped with 'Switch Actuation' mechanism , as an important additional feature .

SPECIFICATIONS : DIFFERENTIAL PRESSURE INDICATOR

MODELS :

GP - 200 : D.P Indicator without switch
GP - 201 : D.P Indicator with single switch
GP - 202 : D.P Indicator with two switches
DPS - 101 : D.P switch with single switch
DPS - 102 : D.P switch with two switches

D.P Ranges : 0 to 0.5,1.0, 1.5, 2.0, 2.5, 3.0, 4.0, 5.0, 6.0, 7.0, 10...BAR
Max. Static Pressure : 25 bar ,200 bar , 450 bar or 700 bar
Accuracy : $\pm 2\%$ or 2.5% of FSR
End Seal : Static ' O ' ring
Body Material & wetted Parts : Aluminium [standard]
: SS 316, BRASS [optional]
End connections : 1/4" BSP [std.]
: Others [specify]
Max. Process Temperature : + 80 °C [std]
: + 200 °C [optional]
Mounting : In-line [standard]
: Panel Mtg./Bottom Entry/ Back Entry [optional]
Finish : Powder coated [matt black] / Aluminium Anodised black
Housing : Weather proof IP-55 / IP-65
Casing [Front Bezel] : Aluminium [Std.]/ SS-304/SS-316 [Optional]
Calibration : Ascending
Switch rating : 15 VA , 0.5A, 125 VAC/ 200 VDC
: 100 VA, 2.0 A, 230 VAC/ 300VDC
Switch type : Magnetic Reed Switch
No. of switches : 1 or 2 max. [optional]
Switching Differential : Fixed

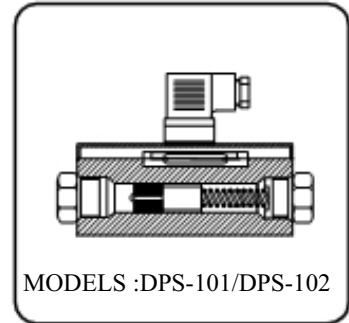
GENERAL APPLICATIONS :

Across all types of filters , pipelines , pressurised non
Pressurised tanks , vessels and chemical equipments .
Flow measurement by differential pressure with

Finds application in the following fields

HYDRAULIC POWER PACK MANUFACTURERS
FILTER MANUFACTURERS
AIR COMPRESSOR MANUFACTURERS
PHARMACEUTICAL INDUSTRIES
C.N.C. MACHINES
WATER TREATMENT PLANTS
NUCLEAR, THERMAL AND HYDRAULIC POWER PLANTS
TEXTILE MACHINERY
AIR DRYER MANUFACTURERS
FLOW MEASUREMENTS, etc.

MODELS :GP-200/ 201/ 202



FILTER CLOG/D.P SWITCHES

MODELS : DPS- 101/ DPS 102.

The function of the filter Clog Indicator is to indicate the exact condition of filter element when it gets clogged . This instrument senses the differential pressure across the filter's 'High' & 'Low ' connections on the filter line. Thus after some days, when the filter starts getting clogged due to dirt etc .the differential pressure across the filter builds up and indicates the clogging condition of the filter through Filter clog Indicator in a clockwise direction with the help of pointer. When it reaches to the full at extreme, it means the filter is fully clogged and needs replacement of filter element , thus acts as a continuous informer of the filter element condition and helps changing the filter element at optimum life performance.

D. K. INSTRUMENTS PVT. LTD.

An ISO 9001:2000 Certified Company

76/2, Selimpur Road, Dhakuria, Kolkata – 700 031.

Ph. No.: 91-33-2415 1310 / 2405 0944, Fax: 91-33-2415 2311.

E-mail: dkinst@vsnl.net, Web Site: www.dkstruments.com

