Orange Research

PISTON DIFFERENTIAL PRESSURE GAUGES 1200-1300 SERIES DP GAUGES FOR LIQUIDS 0-5 to 0-1000 PSID

FEATURES

- Heavy duty -- to 10,000 psi line pressure
- Weatherproof design and rugged construction
- Gauge, switch and transmitter versions
- Popular in filtration, level and flow applications



SPECIFICATIONS – PISTON DP GAUGES

Model	Differential Pressure Range	Maximum Line Pressure/ Temperature	Accuracy FS/Ascending	Electrical Available
1201PG/PGS/PS	0-5 to 0-150 psid (0-0.33 to 0-10 bar)	3000 psig (200 bar) /200°F (93°C)	2%	1 switch no enclosure
1203PG/PGS/PS/PGT/PT	0-5 to 0-150 psid (0-0.33 to 0-10 bar)	5000 psig (340 bar) /200°F (93°C)	2%	1 or 2 switches, 1 relay transmitter, Class 1 Div. 2/ NEMA 4X Class 1 Div. 1 explosion-proof products
1206PG	0-5 to 0-150 psid (0-0.33 to 10 bar)	10,000 psig (680 bar) 200°F (93°C)	2%	None
1303PG/PGS/PGT/PT	0-100 to 0-1000 psid (0-7 to 67 bar)	5000 psig (340 bar)/ 200°F (93°C)	2%	1 or 2 switches
1306PG	0-100 to 0-1000 psid (0-7 to 67 bar)	7500 psig (510 bar)/ 200°F (93°C)	2%	None

P=Piston G=Gauge S=Switch T=Transmitter

*NEMA 4X switch models have a 1/2 inch NPT conduit port as standard. A DIN 43650A-PG11 with mating connector is optional, rated IP65 & NEMA 4X. More on our piston DP gauge electrical details.

DIMENSIONS



FEATURES

Piston Sensor Differential Pressure Gauges

These piston sensor differential pressure gauges measure the pressure difference between two points. Acting in the place of two pressure gauges, these units allow for one simple reading on an easy-to-read scale. Popular in filtration, flow and level applications, they are a low cost alternative to bourdon tube and bellows designs.

- Pressure body and wetted parts: aluminum, brass & stainless steel
- Dial sizes: 2.5", 3.5", 4.5" & 6"
- Porting locations: In-line, back & bottom
- Mounting: Panel, wall & pipe

Note: Our piston sensor models are best for liquid applications as they have a slight amount of fluid migration from the high to low pressure ports. Select our diaphragm models for air or gas applications or where fluid migration cannot be tolerated.

Differential Pressure Gauges, Switches, Relays, Transmitters

A variety of reed switches, relays and transmitters can accompany the gauges or be supplied on their own, without a dial. SPST switches are offered normally open (N.O.) or normally closed (N.C.). SPDT reed switches also are available. DPDT relays are offered for high inductance applications, such as those incorporating motors or solenoids. Transmitters offer a current or voltage output. More information on switches, relays and transmitters.

HOW TO ORDER

Select from each of the applicable categories to construct a model number, and write down the model number for future reference. If you are reordering you must supply the Part Number from your instrument label. Contact Orange Research or local Orange Research distributors for additional options and pricing information.

Samples

Gauge (w/switch option): 1201PGS - 1A - 2.5B - A 0 -15 psid , 2 switch to close at 10 psid ascending Switch only (no gauge): 1201PS - 1A - A 0-15 psid switch to close at 10 psid ascending

Model	Pressure Body	Dial Case	Electrical	Range (psid)	Options
					1 = 1/2" NPT (1/4" NPT
					standard)
					2 = plastic lens
					3 = liquid filled (glycerine)
					4 = 1010 wer pointer
					$S = 1$ enton coaled magnet α
	In-line ports:				6 = red arc (specify range)
	1A = aluminum				7 = dual scale (specify funge)
	1C = 316 stainless				8 = high temperature
	1E = brass				
				0-5, 0-8, 0-10 0-15,	Special Seals (Buna-N
	Change "1"			0-20, 0-40, 0-50,	standard):
	above to			0-60, 0-80, 0-100,	E = EPDM
100100	"4" for back			0-125, 0-150 psid	V = Viton
1201PG	ports; to			1200	F = Fluorosilicone
1201PGS	"5" for bottom	(ontional)	(ontional)	1300 series ranges	I = I e I l o n
12011 S	ports	(0 priorial) 2 5B - 2 5" basic	(0 ptional) $\Delta = SPST N O$	to 1000 psiu	*Follower pointer N/A with
1203PS	Back/bottom	3.5B = 3.5" basic	A = SPST, N.C. B = SPST, N.C.	Other Standard Units	glycerin fill
1203PGS	ports N/A	4.5B = 4.5" basic	C = SPDT	bar. mbar	
1206PG	on Brass 1201,	6B = 6.0" basic	A - A = 2 ea A	in H2O	More differential pressure
1306PG	1203		B-B = 2 ea B	mm H2O	options
	or 1300 series;	Change "B" to "F"	C-C = 2 ea C	ft H2O	
More models	Brass N/A on	above for flanged	R2 = relay	kpa	More Info on Gauge Installation
above	1300 series	dial case	T2 = transmitter	kg/cm2	& Mounting Options