



P1100 PRESSURE SWITCHES

The unique internals of the P1100 range produce low switching differential and excellent repeatability over a wide range - 0.1 and 12.4 Bar (2 to 180PSI). Combined with a variety of microswitches, mountings and sensor options, the P1100 range is suitable for all weatherproof and intrinsically safe applications.



Standard Features

Feature	Standard	Option
Casing	316 stainless steel to IP66 / IP67	Black anodised aluminium switchcase
Mounting	Case-mounted	Mounting bracket
Calibration	Adjustment scale	x
Pressure Settings	100mBar to 12.4Bar	x
Microswitch	Single switch (low differential)	Dual switches, hermetically sealed, pushbutton resets (see over for details)
Electrical Connections	Suitable for cable ϕ 0.5mm - 2.5mm ²	x
Electrical Conduit Entry	M20 x 1.5 straight	M20 angled, 1/2" NPT straight
Operating temperature	-40°C to +120°C	Fluorocarbon -20 to 150°C
Accuracy	+/- 1% at 20°C	x
Wetted parts	316 stainless steel	Monel
Process connection	1/4" BSP.P female	1/4" / 1/2" BSP.P or NPT female, 1/2" BSP.P or NPT male
Diaphragm material	Nitrile	Fluorocarbon, PTFE, EPDM
ATEX Flameproof Cert.	Industrial	CE Ex II2GD EEx IIB+H ₂ T6
ATEX I.S. Cert.	Industrial	CE Ex IIIG EExia IIC T6

Standard Nitrile Diaphragm: The fitting of a fluorocarbon diaphragm or dual microswitches may increase the switching differential by a factor of two. Microswitches other than those shown below may also increase the switching differential.

Adjustment Range		Max. Working Pressure (Bar)		Switching Differential (Bar)		Diaphragm Code	Spring Code
(Bar G)	PSI	Nitrile	Fluorocarbon	Low Diff.	Med. Diff.		
4 - 12	60 - 180	24	50	<0.6	<1.2	15	0
2 - 6	30 - 90	16	40	<0.3	<0.6	21	0
1 - 3	15 - 45	8	30	<0.15	<0.3	30	0
0.1 - 1.7	2 - 24	8	30	<0.06	<0.1	30	1
0.3 - 3.1	5 - 45	8	30	<0.15	<0.3	30	2
0.6 - 6.2	10 - 90	16	40	<0.35	<0.6	21	2
1.2 - 12.4	20 - 180	24	50	<0.70	<1.3	15	2

Adjustable Differential Switching Limits					Dual Microswitch Adjustment Levels			
Min. Diff. at bottom of range (Bar)	Max. Diff. at bottom of range (Bar)	Adjustment range (Bar) Falling set points only: Switch 1	Min. Diff. at top of range (Bar)	Max. Diff. at top of range (Bar)	Switch 2 relative to Switch 1 (Bar) (standard adjuster)		Switch 2 relative to Switch 1 (Bar) (secondary adjuster)	
					Minimum	Maximum	Minimum	Maximum
1.1	3.5	4 - 12	1.6	3.7	0.2	2.0	0.7	4.5
0.5	2.5	2 - 6	0.7	3.5	0.08	1.0	0.3	2.8
0.3	1.7	1 - 3	0.45	2	0.05	0.35	0.17	1.2
0.15	0.55	0.1 - 1.7	0.25	0.75	not available		0.08	1.1
0.15	0.45	0.3 - 3.1	0.25	0.6			0.3	2.0
0.25	1.45	0.6 - 6.2	0.4	2.5			0.3	2.6
0.6	3.25	1.2 - 12.4	1.5	4			2.0	7.5

All switches can be subjected to full vacuum

