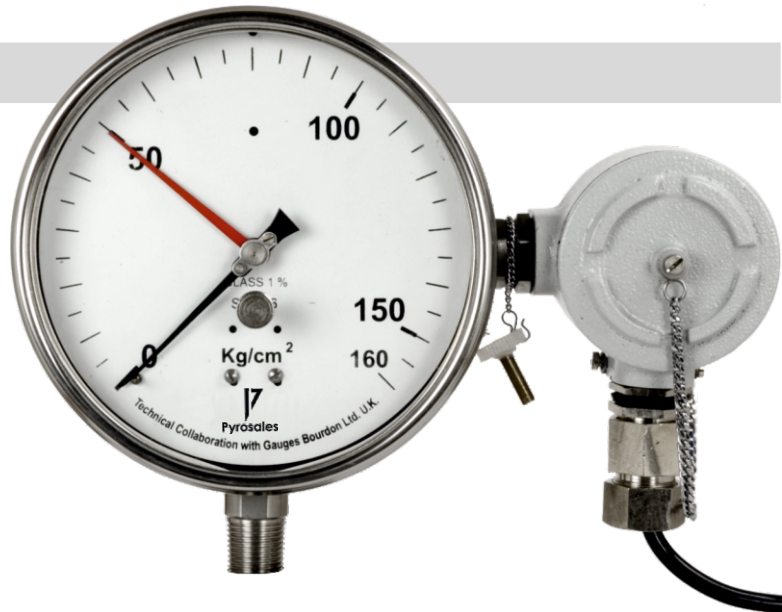


Indicating Pressure Switches

MODEL : IPSH

Features

- Combination of indication and switching
- Choice of electrical contacts and microswitch
- One or two contacts possible
- Switch setting throughout the range externally
- High repeatability and low hysteresis
- Weatherproof or flameproof housing
- Mil connector provided optionally.



Specifications

Dial Case	100 mm / 150 mm, aluminium, white background, black markings SS304 / SS316 with bayonet bezel (Weatherproof) Die Cast Aluminium (Flameproof)
Protection	Weatherproof to IP - 68 (IS:13947 part I / IEC:60529) Flameproof to IIA, IIB (equivalent to NEC Cl. 1, Div. 2, Gr. C & D)
Window	Safety glass
Bourdon	SS316, SS316 Ti, SS316L, Monel
Socket	22 mm Square in SS 316, SS316L, SS316 Ti, Monel
Movement	Brass / SS304 / SS316
Connection	1/2" NPT (M) as standard (other optional)
Range	(-)1 to 1600 kg /cm2 minimum span of 4 kg/cm2 (only standard ranges as mentioned under table 6)
Accuracy	± 1% FSD for indication ± 2% FSD for switching
Over range	As per EN 837
Blow out disc	Provided
Zero reset	Provided (Micrometer Pointer)
Contacts	1SPST, single, normally open, closing on rise in pressure or vice versa, rated 30VA @ 230V AC 2 SPST, two contacts, independently adjustable, one normally open, other normally closed or both normally open or both normally closed, rated 30VA @ 230V AC 1SPDT, single microswitch, adjustable over entire range, rated 5 amp @ 230V AC (3A @ 28 VDC) 2SPDT, double microswitch, independently adjustable over entire range, rated 5 amp @ 230V AC (3A @ 28 VDC)
Optional	Relay for the contact assembly to suit 5 amp @ 230V AC, separately mounted.

Table 6

Gauge	Bar, kg/cm2	Least count
Compound	(-)1 to 3	0.10
	(-) 1 to 5	0.10
	(-)1 to 9	0.20
	(-)1 to 15	0.50
	(-)1 to 24	0.50
	(-)1 to 39	1.0
Pressure Gauge ('C' shaped Bourdon)	0 to 4	0.10
	0 to 6	0.10
	0 to 10	0.20
	0 to 16	0.50
	0 to 25	0.50
	0 to 40	1.0
Pressure Gauge (Coil type Bourdon)	0 to 60	1.0
	0 to 100	2.0
	0 to 160	5.0
	0 to 250	5.0
	0 to 400	10.0
	0 to 600	10.0
Pressure Gauge (Coil type Bourdon)	0 to 800	20.0
	0 to 1000	20.0
	0 to 1600	50.0

For range other than above please contact our design dept.

Benefits of Microswitch type over contact assembly

- Microswitch is rated 5 amp @ 230 VAC (3A @ 28 VDC). Hence use of relay is not required
- Microswitch offered as a combination of movement and switch is procured from Internationally reputed vendor.
- Microswitch assembly provides better switching accuracy and repeatability
- Compact design.

Notes

- 1) Electrical contact assembly is not offered in flameproof version.
- 2) Flameproof version available only in diecast aluminium case.
- 3) Flameproof version available with bottom entry surface mounting only
- 4) Pressure switch can also be offered with chemical seal in weatherproof and flameproof cases.
- 5) Surface mounted flameproof housing with chemical seal pressure gauge is available with capillary.
- 6) Blow out disc not applicable for flameproof case

Ordering Information

MODEL : IPSH



ENCLOSURE
 W Weatherproof
 F Flameproof

MOUNTING
 V Bottom Entry, Local Mounting
 C Back Entry, Local Mounting
 S Bottom Entry, Surface Mounting
 P Back Entry, Flush Panel Mounting
 Y Bottom Entry, 2" Pipe Mounting

DIAL
 10 - 100 mm 15 - 150 mm

CASE
 AL Die-cast Aluminium
 S4 SS304
 S6 SS316

BOURDON
 S SS316
 L SS316L
 M Monel
 T SS316Ti

SOCKET
 S SS316
 L SS316L
 M Monel
 T SS316Ti

MOVEMENT
 2 - Brass
 4 - SS304
 6 - SS316

OPTION
 A 1 SPDT
 B 2 SPDT
 C Colour band
 CE CE Certificate
 D Dual Scale
 F Flanged Process connection **
 I 1 SPST
 J 2 SPST
 L Nil
 N NACE
 R Relay
 U Chemical Seal Unit-Refer Catalogue CSU
 X Accessory - Refer Catalogue ACC

UNIT
 A kg/cm²(g)
 B Bar(g)
 C PSI (g)
 D kPa(g)
 E mmHg(g)
 H MPa(g)
 X Please Specify

RANGE
 Refer Table 6

CONNECTION					
SIZE	TYPE	MALE / FEMALE		METRIC THREADS	
6	1/4"	NT	NPT	M Male	18 M - M 18 x 1.5
10	3/8"	BP	BSP	F Female	20 M - M 20 x 1.5
15	1/2"	BT	BSPT		24 M - M 24 x 1.5
20	3/4"	PF	PF		27 M - M 27 x 2
25	1"	GS	Gas		33 M - M 33 x 2
32	1.1/4"	NS	NPS		XX - Any other
40	1.1/2"				

F - FLANGED PROCESS CONNECTION **

Size	Code	Rating	Code	Facing	Code
1/2"	15	150#	A	RF	RF
3/4"	20	300#	B	FF	FF
1"	25	600#	C	RTJ	RTJ
1 1/2"	40	900#	D	LT	LT
2"	50	1500#	E	LG	LG
3"	80	2500#	F		

** For Flanged Process Connection refer the table (mentioned separately)

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