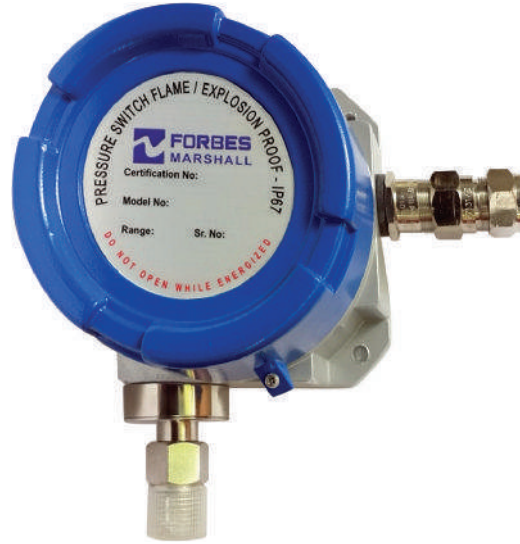


FP – Flame Proof Pressure Switch

FP Series Flame Proof Pressure Switches have been primarily designed to control the pressure in explosive and hazardous applications. The compact design helps in easy commissioning and installation. The specially designed aluminum die cast enclosure is IP66 approved. It is designed to sustain mechanical vibration and shocks. They can be used in boilers, tankers, steam lines etc.



Features

- Compact type
- Easy installation
- Fixed / adjustable differential
- Adjustable set point
- Aluminum die-cast
- Flame proof to Ex.d IIC, Gb, IP66
- Internal locking
- Scale provided

Applications

- Oil and Gas, Refineries
- Power plants
- Steel plants
- Furnace applications
- Petro-chemicals and Fertilizers
- Cement industry
- Glass industry

Standard Specifications

Repeatability	: ± 0.5 % F.S
Scale accuracy	: ± 1% F.S
Measurement unit	: bar, kg/cm ² , psi, mbar and mmWC
Range	: Refer "range table"
Range adjustment	: External and internal locking
Differential	: Fixed and adjustable (optional)
Mounting	: Bottom / panel
Enclosure material	: Aluminum pressure die cast IIC, IP66
Sensing elements	: SS 316 diaphragm
Switch	: 1 SPDT snap action micro switch
Switch rating	: 15A, 250 VAC / 0.2A, 24 VDC
Process connection	: ¼" NPT (F)
Maximum process temperature	: 130 °C
Ambient temperature	: -10...60 °C
Cable entry	: Double compression cable gland
Set point	: Between 15 to 85 % F.S for better performance
High voltage strength	: 0.6 KV between open contacts and 2 KV between contact and body

Range Table

Code	Range mmWC
A	-200 + 200
B	-200 + 400
C	-400 + 200
D	-400 + 600
E	-500 + 500
	kg/cm² and bar
F	0.1 + 1
G	0.2 + 2
H	0.3 + 3
I	0.4 + 4
J	0.5 + 5
K	0.6 + 6
L	0.7 + 7

Code	Range kg/cm ² and bar
M	1 + 10
N	1.6 + 16
O	2.5 + 25
P	4 + 40
Q	6 + 60
R	10 + 100
S	16 + 160
T	25 + 220
U	50 + 300
V	-1 + 1
W	-1 + 2
X	-1 + 3
Y	-1 + 4

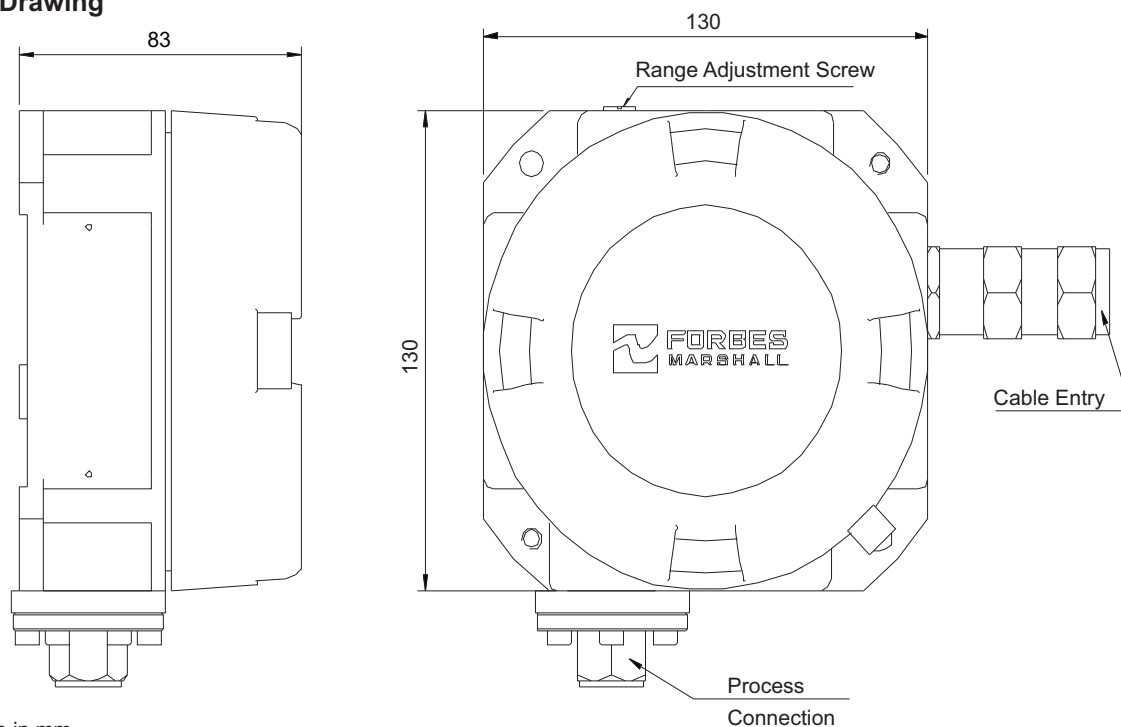
Compatible Accessories

Chemical seal
Syphon

Gauge saver
Snubber

All type of manifolds

Dimensional Drawing



All dimensions are in mm

Microswitch Specifications

Description	Rating	Code 1SPDT	Code 2SPDT
General purpose	5-15A, 250 VAC	A	B
Gold contact	1A, 250 VAC	C	D
Environmentally sealed silver contact	5-15A, 250 VAC	E	F
Environmentally sealed gold contact	1 A, 250 VAC	G	H
Hermetically sealed silver contact	5-15A, 250 VAC	I	J
Hermetically sealed gold contact	1 A, 250 VAC	K	L

For any other requirement please contact Forbes Marshall. Other ranges can also be provided on request.

Ordering Codes

1. Model FP Flame Proof Differential Pressure Switch	FP	9. Sensor moc 1 SS 316 2 Monel 3 Hastelloy C 4 Teflon backup	1
2. Mounting 1 Direct bottom 2 Surface bottom	1	10. Wetted parts moc 1 SS 316 2 Monel 3 Hastelloy C	1
3. Process connection size A 1/4" B 3/8" C 1/2"	A	11. Optionals features Calibration test certificate Material test certificate Enclosure protection to GR. IIA, IIB Enclosure protection to GR.IIC SS304 tag plate Wall mounting plate Pipe mounting with 2" pipe U-clamp	XXXX
4. Process connection type A NPT(M) D NPT(F) B BSP(M) E BSP(F) C BSPT(M) F BSPT(F)	A		
5. Range Please refer standard ranges table	M		
6. Units 1 Kg/sq.cm dual scale with bar 2 m bar dual scale with mm WC	1		
7. Microswitch Refer table "Micro switch specification"	A		
8. Cable entry B 3/4 ET double comp. gland D 1/2" NPT double comp. gland G M20 X 1.5P double comp. gland	B		

Ordering code

CODE for below Pressure Switch will be **FP1AAM1AE11-0000**

Flame proof pressure switch, Direct bottom, 1/4"NPT(M), 1 + 10 Kg/sq.cm dual scale with bar, 1 SPDT general purpose, 5-15A, 250VAC, 3/4"ET double compression gland, SS316 sensor, SS316 wetted parts, Optional features

Notes

For any special requirements, please contact factory.

For special material such as Monel and Hastelloy C, the use of diaphragm seal pressure switch is recommended.



Forbes Marshall
Krohne Marshall
Forbes Marshall Arca
Codel International
Forbes Solar
Forbes Vyncke
Forbes Marshall Steam Systems

Plot No. A-19/2 & T-4/2, I.D.A
Nacharam, Hyderabad - 500 076
Tel : +91-40-27179223, 27171909,
27170732
Fax : +91-40-27173235

Email : response@forbesmarshall.com, ccmidc@forbesmarshall.com

B-85, Phase II, Chakan Indl Area
Sawardari, Chakan, Tal. Khed
Dist. Pune - 410 501. INDIA
Tel : 91(0)2135-393400

A-34/35, MIDC H Block
Pimpri, Pune - 411 018. INDIA.
Tel : 91(0)20-27442020, 39851199
Fax : 91(0)20-27442040
CIN No.: U28996PN1985PTC037806
www.forbesmarshall.com

© All rights reserved. Any reproduction or distribution in part or as a whole without written permission of Forbes Marshall Pvt Ltd, its associate companies or its subsidiaries ("FM Group") is prohibited.

Information, designs or specifications in this document are subject to change without notice. Responsibility for suitability, selection, installation, use, operation or maintenance of the product(s) rests solely with the purchaser and/or user. The contents of this document are presented for informational purposes only. FM Group disclaims liabilities or losses that may be incurred as a consequence of the use of this information.