

## Series 2211PS : PT Pressure Switch (Weather Proof) Piston type

PT



### Features

- High accuracy & repeatability
- SS wetted parts
- Set point locking
- Highly reliable
- Diaphragm seals (optional)

### Applications

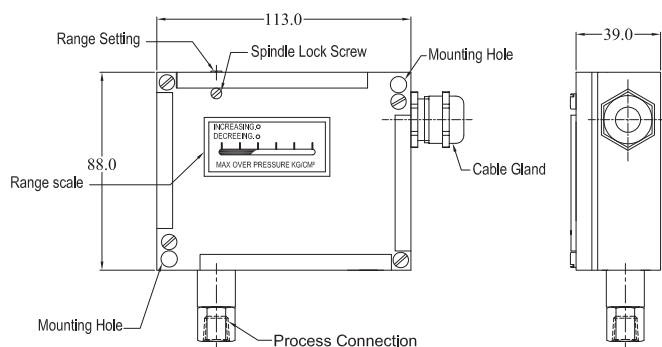
- Boiler, furnace, railway engines.
- Oil & gas, conventional & nuclear power plants, mines, iron & steel plants, refineries, petrochemical, hydraulics, food & pharmaceutical, chemical & fertilizer, cement, textile, glass, paint, pulp & paper, marine industries.

## Specifications

### Standard Version

Sensing element	:	Piston
Wetted parts	:	AISI 316 SS
Cable entry	:	PG 13.5 mm
Scale Accuracy	:	± 1.0% F. S.
Repeatability	:	± 1% F. S.
Scale Unit	:	bar
Range	:	Refer "how to order"
Set point	:	Between 20 to 80% F. S. for better performance
Over pressure limit	:	150% of F. S.
Differential	:	Fixed
Mounting	:	Bottom / Panel
Process connection	:	1/4" NPT (F)
Enclosure protection	:	W/P to IP 66
Enclosure material	:	Pressure die cast aluminum
Maximum process temperature	:	150 °C
Ambient temperature	:	-10 to 60 °C
Switch	:	1 SPDT, snap action micro switch
Switch rating	:	15 A, 250 VAC, 0.2 A, 220 VDC
High voltage strength	:	0.5 to 0.6 KV between open contacts and 2 KV between contacts and body
Insulation resistance	:	>100 M ohms at 500 V
Conformity	:	BS 6134

## Dimensional Details



Notes : • Drawings are not to scale.  
• All dimensions are in mm.

Note: Design and Specifications subject to change without prior notice.

**How To Order** - Ordering Example : 2211PS : PT.P400.SS.FXD.1S.GPL.I.4NPF.PGE.C5

Basic Model		2211PS : PT			
Range					
Code	Range (bar)	Code	Range (bar)	Code	Range (bar)
P560	5 to 60	P160	10 to 160	P400	40 to 400
P100	10 to 100	P250	10 to 250	P600	60 to 600

Note : Other equivalent scale units like kg/cm<sup>2</sup>, kPa, MPa, psi, mmWC etc can be provided on request.

Code	Wetted Parts	Code	Wetted Parts
SS	AISI 316 SS (standard)	SSL	AISI 316L SS

Code	Differential	Code	Differential
FXD	Fixed (standard) <b>Note :</b> 1 SPDT = 3 to 5% F.S. 2 SPDT = 4.5 to 7.5% F.S. 1 DPDT = 4.5 to 7.5% F.S.	ADJ	Adjustable (for 1 SPDT only) <b>Note :</b> 1 SPDT = 5 to 12.5% F.S.

Code	Type of Micro Switch	Code	Type of Micro Switch	Code	Type of Micro Switch
1S	1 SPDT	2S	2 SPDT	1D	1 DPDT

Micro Switch Rating						
Code	Description	AC Rating	AC Rating (Resistive)	DC Rating (Inductive)	Available on 1 SPDT	Available on 2 SPDT
GPL	Low dead band and fixed	15 A 250 V	2 A 24 V 0.4 A 110 V 0.2 A 220 V	2 A 24 V 0.4 A 110 V 0.2 A 220 V	Fixed differential of PT	Fixed differential of PT
GPH	Standard dead band	15 A 250 V	6 A 24V 0.5 A 110 V 0.25 A 220 V	5 A 24 V 0.05 A 110 V 0.03 A 220 V	Fixed differential of PT	Fixed differential of PT
GPA	Adj. differential micro Switch	15 A 250 V			Adj.differential of PT	NA
GPG	Gold plated contact	1 A 125 V	0.5 A 28 V		Fixed differential of PT	Fixed differential of PT
SES	Environmentally sealed silver contact	15 A 250 V	0.4 A 125 V		Fixed differential of PT	Fixed differential of PT
SEG	Environmentally sealed gold contact		1 A 28 V		Fixed differential of PT	Fixed differential of PT
HSS	Hermetically sealed silver contact	4 A 230 V	3 A 28 V	2 A 24 V	Fixed differential of PT	Fixed differential of PT
HSG	Hermetically sealed gold contact	1 A 125 V	NA	NA	Fixed differential of PT	Fixed differential of PT
HDC	High DC rating	10 A 125 V	10 A 125 V	6 A 125 V	Fixed differential of PT	Fixed differential of PT
DPD	DPDT Micro switch	10 A 125 V	0.2 A 250 V		Fixed & adjustable differential of PT	NA

Code	Calibration	Code	Calibration
I	Increasing	D	Decreasing

Process Connections (* Please mention the flange face and flange finish)									
Code	Process Connections	Code	Process Connections	Code	Process Connections	Code	Process Connections	Code	Process Connections
Through Adaptors				Flanged (As per ANSI B 16.5)*					
4NPM	1/4" NPT (M)	38BSM	3/8" BSP (M)	B09	1/2" 150 #	B21	1" 150 #	B39	2" 150 #
4NPF	1/4" NPT (F) (Standard)	38BSF	3/8" BSP (F)	B10	1/2" 300 #	B22	1" 300 #	B40	2" 300 #
		2BSM	1/2" BSP (M)	B11	1/2" 600 #	B23	1" 600 #	B41	2" 600 #
		2BSF	1/2" BSP (F)	B15	3/4" 150 #	B33	1 1/2" 150 #	B51	3" 150 #
		2NPM	1/2" NPT (M)	B16	3/4" 300 #	B34	1 1/2" 300 #	B52	3" 300 #
		2NPF	1/2" NPT (F)	B17	3/4" 600 #	B35	1 1/2" 600 #	B53	3" 600 #

Code	Cable Entry	Code	Cable Entry	Code	Cable Entry	Code	Cable Entry
DIN	DIN Connection*	ETE	3/4" ET	ECB	3/4" ET DCCG Brass	4PN	4 PIN Connection*
PGE	PG 13.5 (Std)	2NP	1/2" NPT (F)	NPB	1/2" NPT DCCG Brass	7PN	7 PIN Connection
ECS	3/4" ET DCCG SS	NPS	1/2" NPT DCCG SS				

\* For 1 SPDT

Code	Options	Code	Options
C5	Calibration certificate	WN	Wall mounting bracket (steel plated)
ST	SS Tag plate	PM	2" Pipe mounting
CN	Conformity as per NACE Standard	JU	2" Pipe/yoke mounting bracket & 'U' clamp (AISI 304 SS)
MTC	Material test certificates***	FN	2" Pipe/yoke mounting bracket & 'U' clamp (AISI 316 SS)
OS	Oxygen service		
CT	Calibration certificate traceable to national/international standards		

\*\*\*Material test certificates will be provided for wetted parts only with chemical composition testing. For others, please consult factory.

Accessories (Refer individual datasheet for complete specifications)			
Code	Accessories	Code	Accessories
CT	Cooling tower	GS	Overload protector
GC	Gauge cock	PD	Snubber
DS	Diaphragm seals	NV	Needle valve
		SYP	Syphon
		CC	Cooling capillary
		MF	Manifolds

Note : In 2 SPDT Instruments, there may be an error of max  $\pm 2\%$  F. S. between Micro Switches at the set point.