

## PISTON TYPE

### SPECIAL FEATURES

- ATEX APPROVED
- HIGH ACCURACY & REPEATABILITY
- SS WETTED PARTS
- SET POINT LOCKING
- HIGHLY RELIABLE
- DIAPHRAGM SEALS (OPTIONAL)

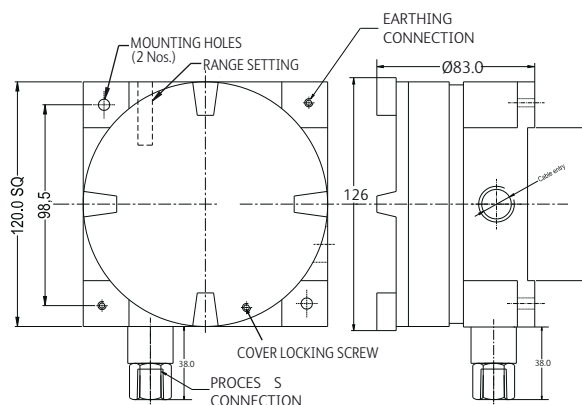
### APPLICATIONS

- BOILER, FURNACE
- OIL & GAS, CONVENTIONAL & NUCLEAR POWER PLANTS, MINES, IRON & STEEL PLANTS, REFINERIES, PETROCHEMICAL, HYDRAULIC, FOOD & PHARMACEUTICAL, CHEMICAL & FERTILIZER, CEMENT, GLASS, PAINT, PULP & PAPER, MARINE INDUSTRIES AND OTHER HAZARDOUS APPLICATIONS.

### TECHNICAL SPECIFICATIONS - STANDARD VERSION

Repeatability	:	± 1 % F. S.
Scale Accuracy	:	± 3 % F. S.
Scale	:	bar (Inside Enclosure)
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 65 & Explosion proof, Class 1, Div. 2, Gas Groups B, C & D (ExII2G, Eex d IIC T6)
Enclosure Material	:	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
Sensing Element	:	Piston
Wetted Parts	:	AISI 316 SS
Cable Gland	:	½"NPT (M) double compression
Conformity	:	BS 6134

### DIMENSIONAL DETAILS



- Notes :
- Drawings are not to scale.
  - All Dimensions are in mm.



## PISTON TYPE

### BASIC MODEL

2211 PS	PTEX
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#### RANGE

Ordering Code	Range (bar)	Ordering Code	Range (bar)	Ordering Code	Range (bar)
P060	5 to 60	P160	10 to 160	P400	40 to 400
P100	10 to 100	P250	10 to 250	P600	60 to 600

#### WETTED PARTS

C6    AISI 316 SS (Standard)                      SL                      AISI 316L SS

#### DIFFERENTIAL

F    FIXED (Standard)

#### TYPE OF MICRO SWITCH

1S    1 SPDT                      2S    2 SPDT                      1D    1 DPDT

#### MICRO SWITCH RATING

Switch 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 ZPD, ZPP, ZDD	Fixed Differential of ZPD, ZPP, ZDD
GPH	Standard Dead Band	15 A 250 V	6 A 24 V 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 ZPD, ZPP, ZDD	Fixed Differential of ZPD, ZPP, ZDD
GPA	Adj. Differential Micro Switch	15 A 250 V			Adj. Differential of ZPD, ZPP, ZDD	NA
GPG	Gold Plated Contact	1 A 125 V	0.5 A 28 V		Fixed Differential of ZPD, ZPP, ZDD	Fixed Differential of ZPD, ZPP, ZDD
SES	Environmentally sealed Silver Contact	15 A 250 V	0.4 A 125 V		Fixed Differential of ZPD, ZPP, ZDD	Fixed Differential of ZPD, ZPP, ZDD
SEG	Environmentally sealed Silver Contact		1 A 28 V		Fixed Differential of ZPD, ZPP, ZDD	Fixed Differential of ZPD, ZPP, ZDD
HSS	Hermetically sealed Silver Plated	4 A 230 V	3 A 28 V	2 A 24 V	Fixed Differential of ZPD, ZPP, ZDD	Fixed Differential of ZPD, ZPP, ZDD
HSG	Hermetically sealed Gold Plated	1 A 125 V	NA	NA	Fixed Differential of ZPD, ZPP, ZDD	Fixed Differential of ZPD, ZPP, ZDD
HDC	High DC Rating	10 A 125 V	10 A 125 V	6 A 125 V	Fixed Differential of ZPD, ZPP, ZDD	Fixed Differential of ZPD, ZPP, ZDD
DPD	DPDT Micro Switch	10 A 125 V	0.2 A 250 V		Fixed & Adjustable Differential of ZPD, ZPP, ZDD	NA

## PISTON TYPE

**BASIC MODEL**

<b>2211 PS</b>	<b>PTEX</b>

**PTEX**

**CALIBRATION**

**I** INCREASING                      **D** DECREASING (Not Applicable for Adj. Differential)



**PROCESS CONNECTIONS**

(\* Please mention the flange face and flange finish)

		Through Adaptors		Flanged (As per ANSI B 16.5)*					
<b>2NM</b>	1/4" NPT (M)	<b>3BM</b>	3/8" BSP (M)	<b>B09</b>	1/2" 150 #	<b>B21</b>	1" 150 #	<b>B39</b>	2" 150 #
<b>2NF</b>	1/4" NPT (F) (Standard)	<b>3BF</b>	3/8" BSP (F)	<b>B10</b>	1/2" 300 #	<b>B22</b>	1" 300 #	<b>B40</b>	2" 300 #
		<b>4BM</b>	1/2" BSP (M)	<b>B11</b>	1/2" 600 #	<b>B23</b>	1" 600 #	<b>B41</b>	2" 600 #
		<b>4BF</b>	1/2" BSP (F)	<b>B15</b>	3/4" 150 #	<b>B33</b>	1 1/2" 150 #	<b>B51</b>	3" 150 #
		<b>4NM</b>	1/2" NPT (M)	<b>B16</b>	3/4" 300 #	<b>B34</b>	1 1/2" 300 #	<b>B52</b>	3" 300 #
		<b>4NF</b>	1/2" NPT (F)	<b>B17</b>	3/4" 600 #	<b>B35</b>	1 1/2" 600 #	<b>B53</b>	3" 600 #



**CABLE ENTRY**

<b>DTE</b>	3/4" ET DUEL ENTRY WITH ONE ENTRY PLUGGED	<b>ECB</b>	3/4" ET DCCG BRASS	<b>DCS</b>	3/4" ET DCCG WITH ONE ENTRY PLUGGED
<b>DNP</b>	1/2" NPT (F) WITH ONE ENTRY PLUGGED	<b>NPB</b>	1/2" NPT DCCG BRASS	<b>DPS</b>	1/2" NPT DCCG WITH ONE ENTRY PLUGGED
<b>ECS</b>	3/4" ET DCCG SS	<b>2NP</b>	1/2" NPT (F)	<b>NPS</b>	1/2" NPT DCCG SS
<b>ETE</b>	3/4" ET				



**OPTIONS**

<b>PW</b>	CALIBRATION CERTIFICATE	<b>WM</b>	WALL MOUNTING BRACKET (STEEL PLATED)
<b>SX</b>	SS TAG PLATE	<b>PM</b>	2" PIPE MOUNTING
<b>TF</b>	CONFORMITY AS PER NACE MR 0175	<b>JU</b>	2" PIPE/YOKE MOUNTING BRACKET & 'U' CLAMP (AISI 304 SS)
<b>GH</b>	MATERIAL TEST CERTIFICATES***	<b>FN</b>	2" PIPE/YOKE MOUNTING BRACKET & 'U' CLAMP (AISI 316 SS)
<b>SG</b>	OXYGEN SERVICE		
<b>PU</b>	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)

<b>CT</b>	COOLING TOWER	<b>GS</b>	OVER LOAD PROTECTOR	<b>SYP</b>	SYPHON
<b>GC</b>	GAUGE COCK	<b>NV</b>	NEEDLE VALVE	<b>MF</b>	MANIFOLDS
<b>DS</b>	DIAPHRAGM SEALS	<b>OD</b>	SNUBBER		



Note : In 2 SPDT Instruments, there may be an error of max ± 2% F. S. between Micro Switches at the set point. Modifications may take place and materials specified may be replaced by others without prior notice due to continuous developments.