

PRESSURE SWITCH (WEATHER PROOF)



DIAPHRAGM TYPE

SPECIAL FEATURES

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

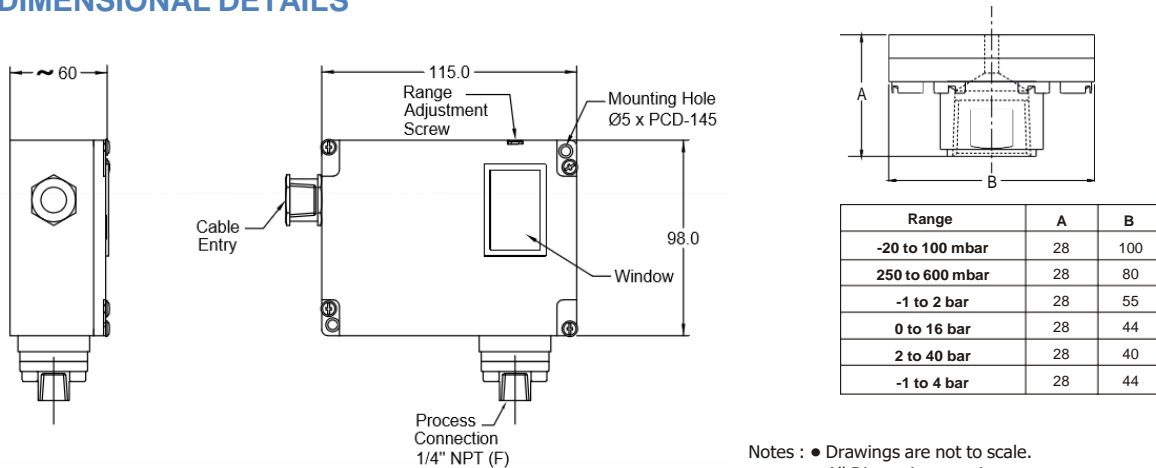
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APPLICATIONS

- BOILER, FURNACE, RAILWAY ENGINES
- OIL & GAS, CONVENTIONAL & NUCLEAR POWER PLANTS, MINES, IRON & STEEL PLANTS, REFINERIES, PETROCHEMICAL, FOOD & PHARMACEUTICAL, CHEMICAL & FERTILIZER, CEMENT, TEXTILE, GLASS, PAINT, PULP & PAPER, MARINE INDUSTRIES.



DIMENSIONAL DETAILS



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

TECHNICAL SPECIFICATIONS - STANDARD VERSION

Repeatability	: ± 0.5% F. S.
Scale Accuracy	: ± 3% F. S.
Scale	: 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
Sensing Element	: Piston Actuated Diaphragm
Other Wetted Parts	: AISI 316 SS
Sensing Element Material	: AISI 316L SS
Cable Entry	: DIN Connector for 1 SPDT
	: PG 13.5 mm for 2 SPDT & 1 DPDT
Conformity	: BS 6134



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HOW TO ORDER

BASIC MODEL

RANGE

Ordering Code	Range (mbar)	Ordering Code	Range (mbar)	Ordering Code	Range (bar)	Ordering Code	Range (bar)	Ordering Code	Range (bar)
WC20	-20 to 20	W060	5 to 60	P001	0.1 to 1	P016	1 to 16	C005	-0.5 to 0.5
WC40	-40 to 40	W100	10 to 100	P002	0.2 to 2	P025	2 to 25	C011	-1 to 1
WC01	-1 to 2	W250	25 to 250	P004	0.4 to 4	P032	2 to 32	C012	-1 to 2
W005	0.5 to 5	W400	40 to 400	P006	0.6 to 6	P040	2 to 40	C014	-1 to 4
W020	3 to 20	W600	60 to 600	P010	1 to 10			V001	-1 to 0

CHAMBER MATERIAL

C6	AISI 316 SS (Standard)	MO	MONEL	AL	ALUMINUM*
SL	AISI 316L SS	HC	HASTELLOY C	(*Ranges 5 mbar to 600 mbar only)	

SENSING ELEMENT MATERIAL

SL	AISI 316L SS (Standard)	BN	BUNA	HC	HASTELLOY C
VT	VITON	TF	TEFLON	MO	MONEL

DIFFERENTIAL

F	FIXED (Standard)	A	ADJUSTABLE (Applicable for 1 SPDT)
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TYPE OF MICRO SWITCH

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

CALIBRATION

I	INCREASING	D	DECREASING (Not Applicable for Adj. Differential)
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(* Please mention the flange face and flange finish)

PROCESS CONNECTIONS

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

CABLE ENTRY

DIN	DIN CONNECTION	ETE	3/4" ET	ECS	3/4" ET DCCG SS	4PN	4 PIN CONNECTION
PGE	PG 13.5	2NP	1/2" NPT (F)	NPS	1/2" NPT DCCG SS	7PN	7 PIN CONNECTION

OPTIONS

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

EB	COOLING TOWER	ED	OVER LOAD PROTECTOR	EG	SNUBBER
EC	GAUGE COCK	NV4	NEEDLE VALVE	EH	SYPHON
DS	DIAPHRAGM SEALS	EL	COOLING CAPILLARY	VM	MANIFOLDS

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.

