

Indicating Differential Pressure Switch

MODEL : IDMSB (Micro switch in Bellow type)
IDNSB (NAMUR switch in Bellow type)
IDNSD (NAMUR switch in Diaphragm type)

GENERAL has been designing and manufacturing high quality Differential pressure indicating switches to suit to most of the industrial application for accurate control of the process equipments. Rigorous and continuous tests are conducted for design and quality conformance.

- Indicating Differential Pressure Switches are design to use in Pumps, Compressors, Lubrication Systems, Turbines, Generators, Boilers, Furnaces etc. in industries such as Chemical, Fertilizer, Ferrous & Non-ferrous metal, Pulp & Paper, Power, Waste Water Treatment, Refinery & Petrochemical, Synthetic Fibre, etc.



Bellow type, with Micro switch & Weather proof Case

Specifications

Dial	100/ 150 mm (for diaphragm) & 150mm (for Bellow), Aluminium dial, white background, black markings
Case	SS304 / SS316 with bayonet bezel (for WP enclosure - NAMUR & Micro switch / FP enclosure - NAMUR switch only) Die Cast Aluminium (for Micro switch with FP enclosure only)
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
Cable Entry	1/2" NPT (F)
Switch	1 SPDT / 2 SPDT, Snap acting micro-switch Rated 5A @ 230 VAC / 3A @ 28 VDC Inductive Contacts (NAMUR), Single or Double, adjustable between 10% & 90% of the Range, Nominal Voltage, 8.32 V DC, Operating Voltage, 5 to 25 V DC
Sensing element	Bellow/ Diaphragm
Sensor Material & Wetted Parts	SS316 / SS316L / Monel / Hastelloy-C / other on request
Movement	Brass / SS304 / SS316
Set Point	Adjustable throughout the range
Mounting	Surface Mounting / 2" Pipe Mounting
Process Connection	1/2" NPT (M) as standard. Other connections optionally
Range	Minimum 0 to 250 mm WC(DP) for NAMUR switch in Diaphragm type Minimum 0 to 2500 mm WC(DP) for NAMUR switch in Bellow type Minimum 0 to 1kg/cm ² (DP) for Micro switch in Bellow type Higher ranges as per customer requirement
Static Pressure	Upto 60 kg/cm ² g, Higher on request
Accuracy	Bellow type with Micro switch: ±1% FSD (for indication) & ±2% FSD (for Switching) Bellow type with NAMUR switch: ±1% FSD (indication & switching) Diaphragm type with NAMUR switch: ±1.6% FSD (indication & switching)
Temperature suitability	Ambient (-)20°C to 60°C, Media 100°C
Temperature Effect	Within ±0.5% FSD/10°C, when temperature changes from reference temperature of 20°C
Blow out disc	Provided at top of the Case (not applicable for FP Die Cast Aluminium Case)
Optional	Diaphragm seal with Capillary CE, Atex



Diaphragm type, with NAMUR switch & Weather proof Case



Bellow type, with Micro switch, Flame proof Case & Diaphragm Seal

The parameters mentioned here are the standard specifications / values generally used for most of the process applications. Any other specification not appearing here also can be provided as per customer requirement.

Under Technical Collaboration with M/s. Gauges Bourdon, France

Ordering Information

MODEL



BASIC MODEL CODE

- IDMSB** Micro switch in Bellow type
- IDNSB** NAMUR switch in Bellow type
- IDNSD** NAMUR switch in Diaphragm type

MOUNTING

- V** Bottom Entry, Local Mounting
- S** Bottom Entry, Surface Mounting
- Y** Bottom Entry, 2" Pipe Mounting
- P** Back Entry, Flush Panel Mounting (for Bellow type only)

DIAL SIZE

- 150** 150 mm

CASE

- S4S** SS 304
- S6S** SS 316
- ALM** Die Cast Aluminium*

SENSOR

- S6S** SS 316
- S6L** SS 316L
- MN4** Monel
- HCC** Hastelloy-C
- XXX** Other (Please Specify)

WETTED PARTS

- S6S** SS 316
- S6L** SS 316L
- MN4** Monel
- HCC** Hastelloy-C
- XXX** Other (Please Specify)

MOVEMENT

- S4S** SS 304
- S6S** SS 316
- BRS** Brass

OPTION

- 1DT** 1SPDT Micro Switch
- 2DT** 2SPDT Micro Switch
- 1NR** NAMUR Switch, single
- 2NR** NAMUR Switch, double
- FAB** Flame Proof Case - IIA/IIB
- F2C** Flame Proof Case - IIC
- FAT** Flame Proof Case - IIC (ATEX)
- CLB** Colour Band
- CEM** CE marking
- DUS** Dual Scale
- NAC** NACE
- OXY** O2 Cleaning
- VCP** Vacuum Protection
- CSU** Chemical Seal
- ACC** Accessory
- XXX** Other

STATIC PRESSURE

Please Specify

UNIT

- KSC** kg/cm²(DP)
- BAR** bar(DP)
- PSI** psi(DP)
- KPA** kPa(DP)
- MPA** MPa(DP)
- MBR** mbar(DP)
- MMW** mm WC(DP)
- CMW** cm WC(DP)
- MWC** m WC(DP)
- INW** inch WC(DP)
- MMH** mm Hg(DP)
- CMH** cm Hg(DP)
- INH** inch Hg(DP)
- XXX** Other (Please specify)

RANGE

Please Specify

CONNECTION

Conn	Code	Size	Code	Type	Code	Male/ Female	Code
Thread	T	1/4"	06	NPS	NS	Male	M
		3/8"	10	NPT	NT	Female	F
		1/2"	15	BSP	BP		
		3/4"	20	BSPT	BT		
		1"	25	JIS-PF	PF		
		M20	M20	JIS-PT	PT		
				Gas	GS		
				R	RR		
		Rp	RP				
		Pitch 1.5	C				

e.g. For 1/2"NPT(M), Code: **T15NTM**
For M20x1.5 (F), Code: **TM20CF**

*Die Cast Aluminium Case applicable for Micro switch with Flame proof version only. Blow out disc shall not be applicable.

Sample Model Code: **IDMSB-Y-150-S4S-S6S-S6S-S4S-T15NTM-(0-2)-BAR-25bar.g-2DT**