

MICRO Magnetic Differential Pressure Gauges are designed to measure the difference in pressure between two points (High & Low) in a system where static pressure is very high.

OPERATING PRINCIPLES :

High & Low pressures are separated by a sensor assembly consisting of a magnet, piston, Teflon seal and a range spring. The difference in pressure causes the sensor assembly to move in proportion to the change against a range spring.

A rotary magnet located in a separate body cavity and isolated from the acting pressures, is rotated by magnetic coupling as per the linear movement of the sensor assembly. A pointer attached to the rotary magnet indicates differential pressure on the dial.

MAGNETIC PISTON TYPE DIFFERENTIAL

PRESSURE GAUGES

Technical Specifications



Inline Mounting



Panel Mounting



Direct Bottom with Pressure Line Filter



Top Mounted



With Magnetic Reed Switch

- **Nominal size :**
Ø 40, 63, 80, 100 & 150 mm
- **Accuracy :**
±2.5% of FS (Ascending) (±2% of FS Optional)
- **Case & Bezel :**
SS 304 case with Nitrile Rubber sealing ring at front
- **Ingress Protection :**
IP 65 as per EN 60 529 or IS/IEC 60 529
IP 68 as per IS/IEC 60 529 - Optional
- **Pressure element – Compression Spring :**
SS 304
- **Magnetic Piston :**
Hard Ferrite
- **Static Pressure :**
100 bar (Standard) (200, 450 & 700 bar Optional)
- **Housing (Wetted Parts) :**
Aluminium (Standard) / SS 316 / SS 316L /
Aluminium Housing with SS 316 Sleeve)
- **Dial :**
Aluminium – Pre-coated White with black marking
over 90° arc ± 5°
- **Pointer :**
Aluminium – Black Finish Fix Type
- **Window :**
Clear Acrylic
- **Sealing Material :**
Nitrile Rubber (Standard)
(EPDM & Viton Rubber Optional)
- **Process Connection :**
1/4" BSP (Female) Standard
- **Permissible temperature :**
Ambient : -25°C to 65°C
Process : Maximum 80°C (Standard)
(200° C Optional)
- **Type of mounting :**
Inline Mounting
Direct Bottom Mounting
Direct Back or Panel Back Mounting
Pipe or Yoke Mounting
- **Differential Pressure ΔP range :**
0... to 10 bar
- **Optional Available features :**
 - Magnetic Reed Switch
(Single SPDT Standard / Double SPDT Optional)
(Between 20 to 100% of FS)
 - Switch Rating: 15 VA, 0.5 Amps, 230 V AC /
200 VDC or 100VA, 1.0 Amps, 230 V AC / 200 VDC
 - Liquid Filled Case
 - Maximum pointer Follower
 - Customized Dial
 - Customized Mounting

APPLICATION

- Filter Manufacturer
- Water treatment plant
- Textile Machinery
- Air dryer system
- Pharmaceutical industries
- Air, Gas & Liquid media

SWITCH

Reed switches are located adjacent to the pressure chamber and are activated by the magnetic field of the sensor assembly.