

DIFFERENTIAL PRESSURE GAUGE



Model: 1650

MAGNET HELIX DESIGN

Indicating Positive, Negative or Differential, Accuracy within 2%

FEATURES:

- * Magnet-helix indicating mechanism ideal for low DP measurement
- * A wide selection of ranges from 0 to 30Pa, up to 30Kpa
- * Accuracy 2% FS
- * Inertia-free, drift-free pointer indication

Working Principle of magnet-helix indicating mechanism

When pressure is applied to both sides of the diaphragm in operation, any difference in pressure causes the diaphragm, the spring that the diaphragm is linked to, and the magnet attached to the spring to move.

the movement of the magnet forces the magnet helix to turn in order to maintain the gap, and the pointer fixed to the helix turns with it.

APPLICATIONS:

The 1650 series DP gauges are designed to measure positive, negative (vacuum) or differential pressure of low air and non-corrosive gases with a full span accuracy of 2% at a competitive price. They are widely used for filter condition checks, HVAC control, and the measurement of fan and blower pressures, air velocity, and pressure drop across orifice plates applications, as well as other applications in the pharmaceutical and semiconductor manufacturing industry.

SPECIFICATIONS:

Service: Air and non-combustible, compatible gases

Dial size: 4" (114mm)

Housing: Die cast aluminum case and bezel, gray coating,

Window: Easy to read clear acrylic window

Range: 0 to 30Pa, up to 30Kpa, see details of range selection chart

Accuracy: +/-2% FS at 20 deg C, (+/-3% for 0.5 in W.C. 125Pa, 10mm W.C., +/-4% for 0.25 in W.C., 6mm W.C., 8mm W.C, 30Pa, 60Pa) See details in range selection chart

Ambient temperature: -7 to 60 deg C

Pressure limit: -68 to 100Kpa

Process connection: 1/8" female NPT, duplicate high and low pressure taps: one pair side and one pair back

Mounting position: Vertical

Net weight: 486g

Standard accessories: Two 1/8"Npt plugs for duplicate pressure taps, two 1/8" pipe thread to rubber tubing adapter, and three flush mounting adapters with screws

Mounting: Surface mounting, Flush or panel mounting, Pipe mounting