

## High Accuracy DP Gauges

**Brand:** Mid-West Instrument



### Short Description

Differential pressure is applied to the bellows and mechanical linkage assembly. As pressure changes, the bellows and linkage assembly is mechanically coupled to the gauge indicator pointer. If equipped with a micro-switch, a cam mechanically linked to the bellows, rotates and triggers the micro-switch. The major components of the Model 105/106 are a two-piece body, bellows sensing element and over-pressure assembly, a torque tube assembly, a range spring and the gauge front assembly. Model 105/106 assembly is protected against over-range in either direction to the rated working pressure by a bi-directional relief valve. Powered by a test quality Bourdon Tube Assembly which is encapsulated in a high pressure chamber that is fitted with a pressure connection to the inside of the Bourdon Tube and a second connection to the pressure chamber. The Model 109 indicates the difference between the pressure applied inside the Bourdon Tube and the pressure inside the chamber. The output shaft of the gauge assembly is magnetically coupled through the solid wall of the pressure chamber to a sensitive jeweled pointer shaft in the dial housing outside the chamber. The magnetic coupling transmits the exact motion of the assembly to the pointer to give an accurate dial reading of the differential pressure. The Bourdon Tube Assembly is protected against over-range in either direction to the rated working pressure by a bi-directional relief valve.

### Description

Bellows sensing element with mechanical linkage Micro-adjust pointer for easy re-zeroing Bi-directional over-pressure protection (activates at 130% of range) 1/4" FNPT dual top and bottom process connections Brass body with 316 stainless steel internals Viton® seals standard (other materials available) 6" dial: white-on-black standard; black-on-white optional Temperature range: -40°F to 200°F Proof pressure: 2x working

pressure at ambient temperature

**Product Gallery**

