

# Diaphragm DP Gauges-Liquids and Gases



**Brand:** Mid-West Instrument

## Short Description

0-20" H<sub>2</sub>O to 0-100 PSID Safe working Pressures up to 3,000 PSI Rugged construction Weather Proof design Common Applications: Filter and Strainer Monitoring Compressed Air Hydraulic Refrigerant Pump Performance Testing Heat Exchanger Pressure Drop Monitoring Valves, Chillers etc., and for local flow indication and control Gauge, Switch and Transmitter options

## Description

Mid-West® Instrument Diaphragm  $\Delta$ P Gauges- Our diaphragm type differential pressure gauge, the high and low-pressure ports are completely isolated from each other. There is no bypass and therefore they can be used for air, gas and liquids. They also come in a variety of dial scales allowing for very sensitive measurements. The Differential Pressure is sensed by the movement of an elastomer diaphragm against a precision calibrated range spring. The change in position of the diaphragm in response to the change in Differential Pressure moves an internal magnet. This magnet, in turn, causes a rotary magnet external to the gauge body to rotate and indicate  $\Delta$ P on a dial. Diaphragm-Type Differential Pressure Gauges are available with one or two hermetically sealed reed switches or a 4-20mA transmitter model dependent. The switches are adjustable within a defined percentage of the full scale range of the gauge and are available in SPDT and SPST normally open configurations for various load/power ratings. The switches can be set to activate or deactivate on rising or falling pressure. Models 130, 140, 142, 522, & 522A Switches are "CE" marked per the EU Low Voltage and RoHS Directives. The Model 700 series uses a piezoresistive differential pressure sensor element. Silicone oil is filled between the die and 2 stainless steel diaphragms. The measured differential is amplified into a usable voltage or converted into a 4-20 ma output. Hazardous location

switches Models 140, and 142 are certified CSA and UL to Canadian & US Standards. Model 240 is CSA, UL Listed and CE marked to the ATEX directive and KOSHA certified along with the option for DPDT relays for higher load applications. The CSA & UL listings are for the entire assembly and not just the enclosure. See individual models for complete specifications.

## Product Gallery

