

## Tank Level DP Gauges



**Brand:** Mid-West Instrument

### Short Description

0-10" H<sub>2</sub>O to 0-800" H<sub>2</sub>O Mid-West Instrument tank level type gauges handle safe working Pressures up to 1000 PSI Rugged construction Weather Proof design Common Applications: Pressurized Tank Level Monitoring Stationary Tanks – Horizontal or Vertical Tanker Transport For materials such as LOX, CO<sub>2</sub>, Ammonia, Nitrogen, Helium, Nitrogen Hydrogen and Argon Gauge, Switch and Transmitter Options

### Description

Mid-West® Instrument Diaphragm  $\Delta$ P Gauges –  $\pm 2\%$  Full Scale Accuracy. With the Diaphragm type tank level 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, track the movement of the diaphragm and the attached pointer indicates  $\Delta$ P on a dial.

Diaphragm-Type Tank Level Gauges are available with one or two hermetically sealed reed switches. 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 pre-set to activate or deactivate on falling or rising tank level pressure. Switches are "CE" marked per the EU Low Voltage and RoHS Directive. Mid-West Instrument 114 Tank Level transmitter is a 2 wire loop powered microprocessor based 4-20 mA transmitter. The magnetic angle sensor & electronics senses the angle (relative to the transmitter sensor) of the magnet which

moves linearly in the bore. Each transmitter is individually calibrated to the gauge using an 11 point calibration linearization technique. Transmitter options can be CE marked for compliance to the EMC Directive upon request .

### **Product Gallery**

