

## Model 130 DELTA GAUGE®

### Diaphragm Type Differential Pressure Gauge

**LOW RANGE: 0-5" H<sub>2</sub>O (0 to 12.4 mbar) to 0-400" H<sub>2</sub>O (0 to 1 bar)**

The Model 130 is a rugged general purpose differential pressure gauge with a 4-1/2" round dial.

- Either linear or square root (for flow) dials.
- Working pressure of 300 P.S.I.G. (20 bar) with a polysulfone body, and 500 P.S.I.G. (34 bar) in aluminum, brass, 316 S.S., and Hastelloy C.
- Over-range protection to rated working pressure.
- **Five Year Limited Warranty**
- Magnetic coupling between the sensing element and the indicating pointer provides for complete isolation of the process fluid within the pressure capsule.
- Suitable for use on virtually all reasonably clean liquids or gases.
- Diaphragm design allows use of dissimilar fluids on high and low side of gauge.
- Can be used with vacuum or pressure applications.
- Ideal for liquid level indication for pressurized tanks.
- Wide range of elastomers.
- CE marked switches and enclosures are available.



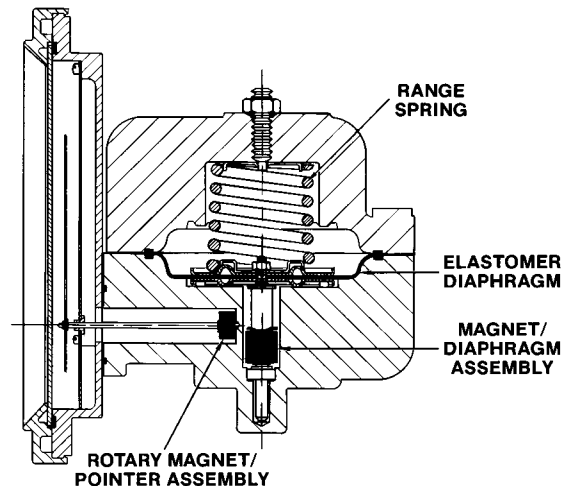
# MODEL 130 DELTA GAUGE® CHARACTERISTICS

A flexible elastomer diaphragm and calibrated spring sense differential pressure. The diaphragm provides total separation of the high and low pressure liquids and gases. Totally supported at full travel in either direction, this feature assures full overrange protection to the rated working pressure of the gauge.

A magnetic coupling transmits the sensing element motion to the indicating pointer while assuring total isolation of the process fluid within the pressure capsule. This prohibits the possibility of process fluid leaking into the gauge case.

The few internal metal parts are 316 Stainless Steel, or Hastelloy C as an option.

The low range capability of the Model 130 is ideally suited for flow, liquid level and vacuum applications.



The Model 130 is available in Aluminum, Brass and 316SS bodies only with one or two hermetically sealed reed switches for low and/or high limit alarm. These CSA listed switches are single-pole, double-throw, and may be connected to open or close on rising or falling pressure.

Switching may be adjusted from 10% to 90% of the differential pressure range of the instrument.

Switches are enclosed in a weather resistant housing. Switch setting is readily made with a screw adjustment.

## Special Enclosures:

### NEMA Type 4X Enclosure

The Model 130 with CSA listed control switching is available in non-corrosive molded plastic enclosures. These are oiltight, dustfree and watertight per NEMA Type 4X standards. Dimensions approximately 6"x6"x7". Weight approximately 5 to 11 lbs. (2.3 to 5.0 Kilos).

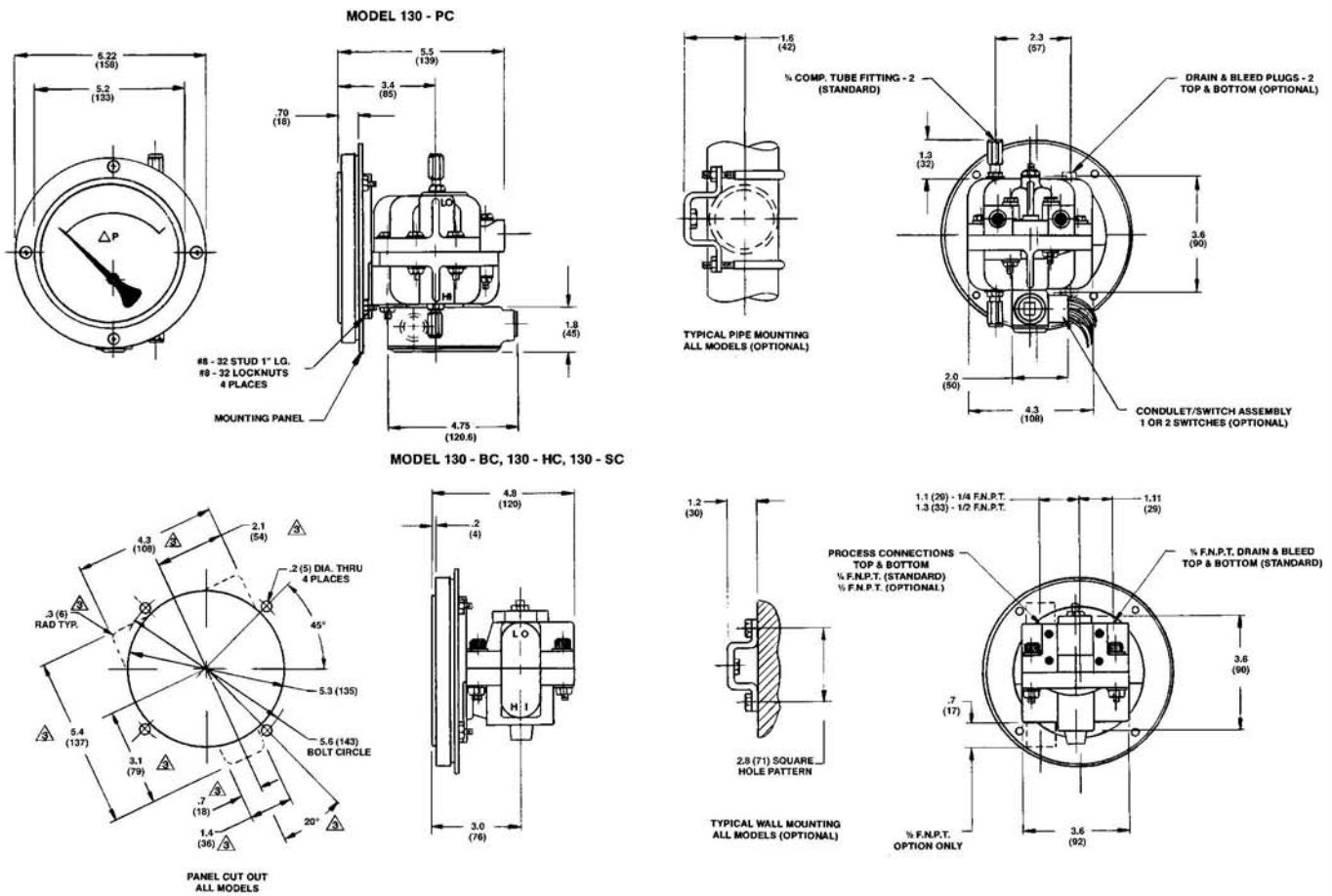
### Explosion-proof CSA Listed

The Model 130 with CSA listed control switching is available in an explosion-proof enclosure which complies with NEC Class 1, Groups C and D; Class II Groups E, F, and G; NEMA 7 and 9 standards. These are machined cast-aluminum enclosures with 1/2" FNPT conduit connection and 24" wire leads. Dimensions approximately 8"x8"x9". Weight approximately 20 to 26 lbs. (9.0 to 11.7 Kilos).





# MOUNTING INFORMATION & DIMENSIONAL DATA



- NOTES:
1. Drawings show standard gauge nominal dimensions. (not to scale)
  2. Dimensions shown in parentheses are in millimeters.
  3. Add to panel cut out for condulet/switch assembly option.
  4. Contact Factory for 3-1/2" & 4-1/2" anod. alum. dial assy. mounting dimensions.

Manufacturer reserves the right to change specifications without prior notice.

**Temperature limitations:** -40°F(-40°C) to +200°F(+93°C). **Proof pressure:** two times rated working pressure.

**NOTE:** These limitations are based on the entire instrument being saturated to these temperatures. Systems (process) temperatures may exceed these limitations with proper installation. Contact our customer service representative for details.

**STANDARDS:** All Model 130 Series differential pressure gauges either conform to and/or are designed to the requirements of the following standards:

ASME B1.20.1  
 ASME B40.1  
 CSA-C22.2 No. 14.25 and 30  
 EN-61010-1

NACE MR0175  
 NEMA Std. No. 250  
 SAE J514  
 UL Std. No. 50,508 and 1203