



# Diaphragm Pressure Gauge; 0.01 to 1000 PSIG



Photo shows the dual set point controller with standard enclosure on the left, and indicator in the 1/4 DIN enclosure on the right.

The Vacuum Research pressure gauges are compact pressure measurement and control instruments that offer the precision and high resolution of digital electronics at the same price as analog instruments. These instruments use a rugged and stable silicon diaphragm type transducer with an 1/8 inch NPT connection in a stainless steel housing.

The dual set point controller instruments operate two independently set control relays. Set point values are easily adjusted from

## Specifications

**Pressure Range:** 0.01 to 20 PSIG, 0.1 to 200 PSIG, or 1 to 1000 PSIG

**Calibration:** Air or Nitrogen.

**Accuracy:** 2% of full scale range.

**Display:** 3 1/2 Digit Green Backlit LCD.

**Analog Output:** 0 to 2.000 Volts into 2000 Ohm load or higher (or 0 to 1.000 Volts for 1000 PSIG). 2 pin connector included. 4 to 20 mA and 0 to 10 VDC output in addition to analog voltage output available for instruments in 1/4 DIN enclosure.

**Set Point Range:** Full scale, 0 to 20, 0 to 200, or 0 to 1000 PSIG

**Repeatability:** ± 2 digits.

**Transducer:** 1/8 NPT male thread.

**Line Power:** 115 VAC, 50/60 Hz; 230 VAC optional at no additional cost.

**Line Regulation:** ± 20% change in line voltage produces less than 1% change in reading.

- 0.01 to 20, 0.1 to 200, or 1 to 1000 PSIG Ranges
- ± 0.1 PSIG Resolution Over Entire Range
- Easy To Read 3 1/2 Digit Backlit Display
- Dual Set Point Controller With 2 Relays
- Linear 0 to 2.0 Volt D.C. Analog Output
- Change Cable Length Without Re-calibrating
- Fits Hastings, Varian, TeleVac Panel Cut-Outs

the front panel and displayed on the meter with push-to-set switches. Each relay has 3 Amp contacts, form C. Screw terminals for the relay outputs are provided on the rear panel.

Both the indicator and the controller instruments are available in either 1/4 DIN or 2.75 inch diameter standard enclosures. The 2.75 inch diameter standard enclosure fits the same panel cut out as Hastings, Varian, Televac and other analog meters. Mounting hardware is included with both styles.

**Wattage:** Less than 1 Watt for indicator, 2 Watts for controller.

**Ambient Operating Range:** Minus 40 °C to 100 °C.

**Temperature Effects:** Changes in ambient temperature between 0 °C and 50 °C change the reading less than 0.33% per °C.

**Bakeout Temperature:** Gauge tube can be baked to 100 °C (212 °F) in air or vacuum.

**Dimensions:** See page 44.

**Mounting:** Panel mounting hardware is standard. Bench mount and portable cabinets are also available, see page 43 for specifications.

**Transducer Cables:** 10 ft. (3m) attached.

**Extension Cables:** Change transducer cable length without recalibration. Extensions to 500 ft. (150 m) can be provided, see page 39.

**Line Cord:** 3 Wire, 65 inch (170 cm) attached.

**Net Weight:** Indicator: 1 lb., 2 oz. (0.5 kg); Controller: 1 lb., 6 oz. (0.6 kg)

**Shipping Wt.:** Indicator: 2 lbs., 8 oz. (1.1 kg); Controller: 3 lbs. (1.3 kg)

## Ordering Information Specify 115 or 230 V 50/60 Hz or 24 VDC

**0.01 to 20 PSIG Dual Set Point Controller With Digital Display** in standard enclosure. Gauge tube not included. P/N: 904005 . . . . . \$603.

**0.1 to 200 PSIG Dual Set Point Controller With Digital Display** in standard enclosure. Gauge tube not included. P/N: 904003 . . . . . \$603.

**1 to 1000 PSIG Dual Set Point Controller With Digital Display** in 1/4 DIN enclosure. Built to CSA standards. Gauge tube not included. P/N: 902427 . . . . . \$613.

**0.01 to 20 PSIG Digital Indicator only** in standard enclosure. Gauge tube not included. P/N: 904006 . . . . . \$393.

**0.1 to 200 PSIG Digital Indicator only** in standard enclosure. Gauge tube not included. P/N: 904004 . . . . . \$393.

**1 to 1000 PSIG Digital Indicator only** in 1/4 DIN enclosure. Built to CSA standards. Transducer not included. P/N: 902428 . . . . . \$432.

**4 to 20 mA or 0 to 10 VDC Output** in addition to 0 to 2.000 VDC or 0 to 1.000 VDC analog output. Only available for instruments in 1/4 DIN enclosure. P/N: V801082 . . . . . add \$214.

**Calibrators for Pressure Instruments** See page 37.

**Buy Now! Go to [www.vacuumresearch.com](http://www.vacuumresearch.com) to order online**

**Standard Silicon Diaphragm Transducer for Pressure Instruments.** Wetted parts are silicon and 304 SS. Transducer body is 304 SS, connector pins are nickel plated Kovar.

**0.01 to 20 PSIG With 1/8 in. NPT Male Thread,** P/N: 912075 . . . \$244.

**0.1 to 200 PSIG With 1/8 in. NPT Male Thread,** P/N: 912100 . . . \$244.

**0.1 to 200 PSIG Stainless Steel, 1/4 in. NPT,** P/N: 912094 . . . . \$382.

**1 to 1000 PSIG Stainless Steel, 1/4 in. NPT,** P/N: 912180 . . . . . \$382.

**All Stainless Steel Gauge Tubes For Outdoor Applications** or wherever the use of 304 SS is appropriate. All external parts and connector pins are 304 SS. Add SS suffix to tube P/N and to tube price: . . . . . add \$42.

**Gauge tube baffles and traps** . . . . . see page 40

**Quick connect couplings, tube selector switch, extension cable, and other accessories** . . . . . see pages 39 and 43