



Indicator in standard enclosure shown on the left, controller with dual set points and 1/4 DIN enclosure shown on the right.

- 30 Inches Hg Vacuum to 150.0 PSIG Pressure
- ± 0.1 Inches Hg and 0.1 PSIG Resolution
- Easy To Read 3 1/2 Digit Backlit Display
- Dual Set Point Controller With 2 Relays
- Analog Output Scaled In PSI and Inches Hg
- Change Cable Length Without Re-calibrating
- Fits Hastings, Varian, TeleVac Panel Cut-Outs

These are compact vacuum/pressure measurement and control instruments that offer the precision and high resolution of digital electronics at the same price as analog instruments. These instruments utilize a rugged silicon diaphragm transducer with a 1/8 inch NPT connection in a stainless steel housing. Transducers with stainless steel diaphragm and stainless steel housing are also available. The meter display reads from -30.0 to +100.0, with the minus sign indicating vacuum in inches of mercury, and the positive sign indicating pressure in PSIG.

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

Specifications

Pressure Range: 30 in. Hg vacuum to 150.0 PSIG pressure. Transducer can withstand overpressure to 200 PSIG.

Calibration: Air or nitrogen.

Accuracy: 2% of full scale.

Display: 3 1/2 Digit Green Backlit LCD.

Analog Output: Minus 300 millivolts to 0.0 Volts at atmosphere; 0 to 1.50 Volts D.C. from atmosphere to 150 PSIG. 4 to 20 mA and 0 to 10 VDC output in addition to 0 to 1.50 Volt D.C. available for instruments in 1/4 DIN enclosure.

Transducers: Silicon diaphragm with 1/8 NPT male thread port standard. Optional is 316 SS stainless steel diaphragm with 1/4 NPT male port.

Set Point Range: Full Scale, 30 in. Hg to 150.0 PSIG.

Set Point Repeatability: ± 0.2 in. Hg; ± 0.2 PSIG.

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.

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

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

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

Dimensions: See page 40.

Mounting: Panel mount hardware is standard. Bench mount and portable cabinets are also available, see page 39.

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

Transducer Extension Cables: Change transducer cable length without recalibration. Extensions to 500 ft. (150 m) can be used, 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

Dual Set Point Controller With Digital Display in standard enclosure. Transducer not included. P/N: 904001\$798.

Dual Set Point Controller With Digital Display in 1/4 DIN enclosure. Built to CSA standards. Transducer not included. P/N: 904008 ...\$847.

Digital Indicator only in standard enclosure. Transducer not included. P/N: 904002\$539.

Digital Indicator only in 1/4 DIN enclosure. Built to CSA standards. Transducer not included. P/N: 904007\$587.

4 to 20 mA or 0 to 10 VDC Output in addition to the standard analog output. Only available for instruments in 1/4 DIN enclosure. P/N: V801082add \$264.

Calibrator for 30" Hg - 150.0 PSIG Instruments
See page 33 for a complete description of the calibrator.
P/N: 912021\$286.

Buy Now! Go to www.vacuumresearch.com to order online

Standard Silicon Diaphragm Transducer for 30 Inches Hg to 150.0 PSIG. Transducer body is 304 SS, connector pins are nickel plated Kovar. 1/8 in. NPT male thread. P/N: 912065\$301.

Silicon Diaphragm Transducers with All Stainless External Parts 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 \$52.

Standard Stainless Steel Diaphragm Transducer for 30 In. Hg to 150 PSIG instruments. Diaphragm and all wetted parts are 316 SS, all other parts are 304 SS. 1/4 in. NPT male thread. P/N: 912093\$471.

Gauge tube baffles and trapssee page 36.

Quick connect couplings, waterproof vacuum sensors, gauge tube selector switch, bench mount cabinets, extension cable, and explosion-proof gaugessee pages 35 and 39.