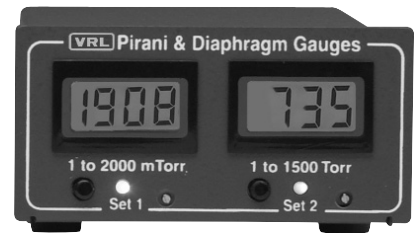
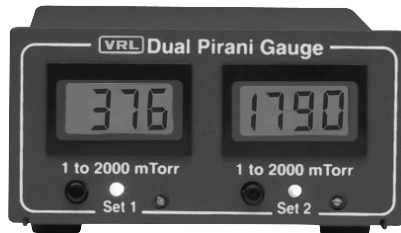
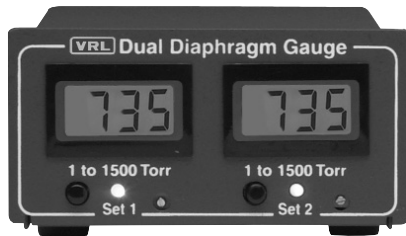




Dual Gauges; 1 to 2000 mTorr Pirani & 1 to 1500 Torr Diaphragm

Our most popular Vacuum Gauges are now available in 1/8 DIN enclosures. These compact instruments use the same sensors and gauge tubes as our original instruments but now the display portion uses only 25% of the panel space! With the combination Diaphragm and Pirani Gauge you can now measure from 10⁻³ Torr to Atmosphere with a single 1/8 DIN instrument. Each instrument has an independent DC analog output and an adjustable set point with a built in relay for process control. The set point is easily adjusted from the front panel. Relays have 3 Amp contacts, form C, and have screw terminal connectors on the rear of the instruments.

- Available in Torr, mTorr, mbar or Pascal
- Resolution of ± 1 mT or ± 1 Torr Over Entire Range
- Easy To Read 3 1/2 Digit Backlit LCD Display
- Adjustable Set Point and Relay for Process Control
- Linear DC Output for PLC or DCS is Standard
- Change Cable Length Without Re-calibrating
- 1/8 DIN Enclosure for Bench or Panel Mount



Pirani Gauge Specifications

Pressure Range: 1 to 2000 milliTorr (~ 0 to 2 mmHg.)
Calibration: Air or Nitrogen.
Accuracy: Better than 5% of value or ± 3 mTorr, whichever is larger.
Response Time: 0.3 second time constant.
Analog Output: Linear 0 to 2.000 Volts into 2000 Ohm load or higher.
Gauge Tube: See Page 12 for gauge tubes.
Materials in Sensor: 304 SS, platinum, glass to metal seal and nickel plated feed throughs.
Set Point Range: Full Scale, 1 to 2000 mTorr; Repeatability: ± 2 mTorr.
Over Pressure on Gauge Tube: Maximum working pressure is 300 PSIG (Tested to 1200 PSIG, 84 kg/cm²) with 1/8 in. NPT.
Temperature Effects: Changes in ambient temperature between 0 °C and 50 °C change the reading less than 0.2 mT per 0 °C at 50 mT; less than 4 mT per 0 °C at 900 mT.

Diaphragm Gauge Specifications

Pressure Range: 1 to 1500 Torr.
Calibration: Any gas, liquid or vacuum compatible with sensor materials.
Accuracy: 1% of reading or 2 Torr.
Response Time: Less than 400 msec. for response to a step change.
Analog Output: 0 to 1.500 Volt into 2000 Ohm load or higher.
Transducer: See Page 7 for sensors.
Materials: All parts in contact with process are 316 or 304 SS, or silicon.
Set Point Range: Full Scale, 1 to 1500 Torr. Repeatability: ± 2 Torr.
Sensor Internal Volume: 1.25 ml for SS; 0.5 ml for Silicon.
Temperature Effects: When Changes occur in ambient temperature between 0 °C and 50 °C, reading will change no more than ±0.02% per °C.

Common Specifications

Bakeout Temperature: Standard gauge tube can be baked to 100 °C (212 °F) in air or vacuum. For 250 °C (482 °F) bakeout see Page 13.
Dimensions: 1/8 DIN 96 x 48 x 188 mm.
Mounting: 1/8 DIN enclosure. Jack screws for panel mounting are included.
Gauge Tube Cables: Up to 500 ft. See ordering information.
Extension Cables: Change gauge tube cable length without recalibration. Extensions to 500 ft. (150 m) can be used. See catalog page 42.
Net Weight: w/o gauge tube is 1 lb, 6 oz. (0.6 kg)
Shipping Wt.: w/o gauge tube is 3 lbs. (1.4 kg)
Power: Gauges operate from 12 to 35 VDC power, 150 mA. Optional power supply available for 115/230 V, 50/60 Hz P/N 902221.
Relay: SPDT contacts rated for 3A @ 115 VAC, non-inductive.
Wattage: Less than 1 Watt for indicator, 2 Watts for controller.

Ordering Information; Instruments

Two Channel Pirani Gauge 1 to 2000 milliTorr in 1/8 Din enclosure Each channel includes independent 3 1/2 digit backlit LCD display, 0 to 2 VDC output and adjustable set point with relay.
P/N: 902305 \$631.
Two Channel Diaphragm Gauge 1 to 1500 Torr in 1/8 DIN enclosure. Each channel includes 3 1/2 digit backlit LCD display, linear analog output 0 to 1.5 VDC and an adjustable set point with relay.
P/N: 902306 \$631.
Dual Gauge with one Pirani and one Diaphragm Gauge in 1/8 DIN enclosure, separate 3 1/2 digit backlit LCD display, analog outputs and adjustable set point for each gauge.
P/N: 902307 \$631.

Ordering Information; Accessories

Cable Assembly includes a connector for the gauge tube on one end and stripped and tinned leads on the other end to connect to the terminal strip. Connector on only one end allows the cable to be pulled through conduit to more easily enter your cabinet. Specify length. Up to 500 Ft.
P/N 801168- xxx feet \$20. plus \$1./Ft.
Power Supply 24 VDC out @ 800 mA 115/230 Volt, 50/60 Hz input. Can power up to 5 instruments.
P/N 902221 \$59.
Calibrator for 2000 mTorr Instruments
See page 37 for a complete description of the calibrator.
P/N: 912008 \$231.
1500 Torr Diaphragm Gauge Calibrator
P/N 912027 \$231.