

Terranova[®] Model 907

Dual - Hybrid Vacuum Gauge Controller Diaphragm + Convection Gauges

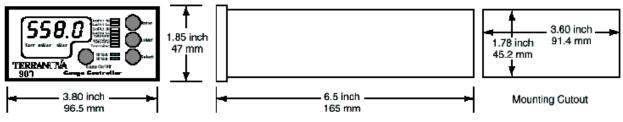


The Terranova Model 907 Dual - Hybrid Vacuum Controller displays vacuum pressure as measured from both a Capacitance Diaphragm gauge (CDG) and a Convection Enhanced Pirani (CEP) gauge. The 907 is housed in a 1/8 DIN enclosure and is simple to operate.

For the CDG, the 907 supplies ±15 volts at up to 0.75 amp; this is sufficient to operate most heated capacitance diaphragm gauges. The 907 precisely measures the 0 to 10 volt signal from the CDG to determine pressure, displaying the results in units of Torr/mTorr, mBar/microBar or Pascal/kPascal, user selectable. The Model 907 controller covers full scale CDG ranges from 20 mTorr to 10,000 Torr, user selectable.

For the Convection gauge, the 907 displays vacuum pressure as measured from a Duniway ConvecTech Convection Enhanced Pirani gauge tube or a Granville-Phillips CONVECTRON® gauge tube, user selectable. It displays vacuum measurements based on thermal conductivity of air/nitrogen or argon, user selectable. The 907 controller covers the range from 0.1 mTorr to 995 Torr, 0.1 µBar to 995 mBar or 0.01 Pascal to 130 kPascal, userselectable. Major features include:

- · low cost
- small 1/8 DIN size
- 0.75 amp output to power heated gauges
- torr/mtorr, mbar/microbar, pascal/kpascal units
- interfaces to diaphragm and convection gauges
- CE/UL listed
- universal power input
- RS-232 input/output
- · calibrated logarithmic analog output
- two process control set points with 2 amp relays



Model 907 (1/8 DIN) External Dimensions

Phone: 800-446-8811/650-969-8811 ● FAX: 650-965-0764 info@ duniway.com • www.duniway.com

Specifications

Useful Measuring Range CDG: 4 decades; full scale of 20 mTorr to 10,000 Torr;

maximum range selection is entered on the

front panel by the user. Pressures higher than 130% of

sensor full scale displays **HI CEP**: 0.1 mTorr to 995 Torr for air

Input to the 907 Controller CDG: 0 to 10 volts for full scale of the gauge

CEP: Pressure is calculated from the gauge output using

the gauge suppliers algorithm.

Units of Display CDG and CEP: Torr/mTorr or mBar/microbar or

Pascal/kPascal, user selectable

Vacuum Gauges CDG: One diaphragm manometers which

require up to 0.75 amp total from + / -15 volt

supplies

CEP: One GP Convectron® or equivalent or One HPS/MKS 317 Convection Enhanced Pirani

Pressure Display 4-digit 7-segment bright red LED, 10 mm high

Full Scale Adjust CDG: 20, 50, 100 mTorr; 1, 2, 10, 20, 100, 1,000, 5,000,

10,000 Torr; user selectable

CEP: 995 Torr

Calibration Adjustments CDG: CALIBRATE: allows user to multiply response by

0.500X to 2.000X; CDG RANGE, ZERO, UNITS CEP: GAUGE ZERO, UNITS, ATM, GAS (Air/Argon)

Process Control Set Points two, with independent High and Low set points

for each relay, for flexible control of hysteresis two relays, 2 amp/240 VAC/30 VDC contacts

Analog Output Logarithmic, 0.5 volts per decade

Output Power CDG: +15 and -15 volts, at 0.75 amp total; sufficient to

operate temperature-controlled gauges

Serial Input/Output Interface RS-232 is standard

Operating Voltage universal input, 100-240 VAC, 47-63 HZ;

30 VA

Operating Temperature Range 36°F to 122°F (+2°C to +50°C)

Weight 1 lb. / 0.5 kg

Size Standard 1/8 DIN enclosure

3.80 inches (95 mm) wide 1.85 inches (47 mm) high 7.0 inches (175 mm) deep

Mounting brackets are provided for panel mounting

Compliance Listing CE/UL marked

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