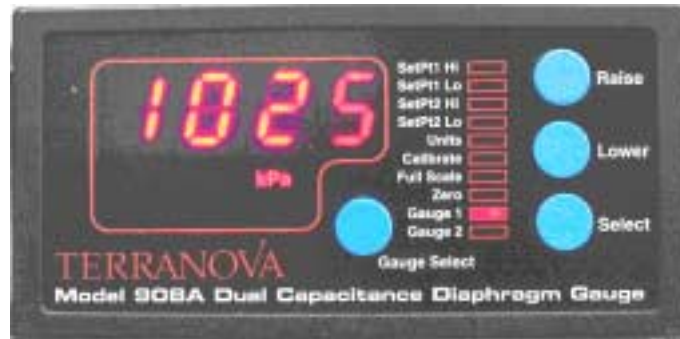


Terranova Model 908A Dual Capacitance Manometer

1/8 DIN Vacuum Gauge Controller

Covers gauges with full scale of 20 mTorr to 10,000 Torr



low cost

small 1/8 DIN size

0.75 amp output to power heated gauges

torr/mTorr, bar/mbar, kTorr, arb units

interfaces to all standard capacitance manometers

CE marked

two process control set points with 2 amp relays

universal power input

RS-232 input/output

calibrated linear analog output

Capacitance Manometers are widely used in semiconductor production and other industry because of their ability to measure absolute pressure and for their immunity to contamination and corrosion. The 908A offers unprecedented flexibility, ease of operation and low cost.

The 908A can deliver up to 0.75 amp to operate one or two heated or unheated manometers. Both manometers are maintained with power applied to permit the user to alternate between readings by pressing a front panel button. Pressure readings from either gauge is available on demand through the RS-232 serial port. The RS-232 port also allows reading the status of set points and other parameters of the 908A operation.

The two process control set points allow setting of both upper and lower set point for each relay, giving the user complete control over the hysteresis of the controlled function. Either or both of the set points may be assigned to either manometer. The relays have isolated outputs and are rated at 240 VAC at 2 amps to allow direct control of small motors and actuators.

The 908A uses an advanced power supply design, which operates on any input from 100 VAC to 240 VAC; also the 908A permits the user to select pressure units of Torr/mTorr or Bar/mBar, kTorr, or arb (arbitrary/no units), making it a universal instrument for international application. In addition, the 908A is CE marked for European applications.

Specifications

Useful Measuring Range

4 decades; full scale of 20 mTorr to 10,000 torr; maximum range selection is entered on the front panel by the user

Display Range

0.01 mTorr to 10.00 kTorr; pressures higher than 10.00 kTorr displays **HI**

Accuracy of Gauge Interface

The 908A incorporates a high-resolution input circuit which allows the use of the capacitance manometer over its entire 4 decades.

Input to the 908A Controller

0 to 10 volts for full scale of the gauge

Units of Display

torr or mBar or kTorr or arb; user selectable

Vacuum Gauge

one or two capacitance manometers which require up to 0.75 amp total from ± 15 volt supplies

GAUGE SELECT

allows the user to select which of the two gauges are shown on the digital display

Operating Temperature Range

+2 to +50 degrees Celsius

Pressure Display

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

Display Indicators

bright red individual LED for miscellaneous indicators; 7-segment LED for digits

FULL SCALE Adjust

user may select range of display:
20, 50, 100 mTorr;
1, 2, 10, 20, 100, 1,000, 5,000, 10,000, torr

CALIBRATE adjust

for calibration of display; allows user to multiply response by 0.500X to 2.000X

Process Control Set Points

two, with independent High and Low set points for each relay, for flexible control of hysteresis

Process Control Relays

two relays, 2 amp/240 VAC/30 VDC contacts

Nonvolatile Memory

for all user specified parameters

Analog Output

linear, 4.00 volts for 100% of full scale

Output Power

+15 and -15 volts, at 0.75 amp total; sufficient to operate temperature-controlled gauges



1305 Space Park Way, Mountain View, CA 94043
Phone: 1-800-446-8811 / 650-969-8811 / FAX: 650-965-0764

www.duniway.com