

Terranova® Model 809

Diaphragm Gauge Control/Display

1/8 DIN Vacuum Gauge Controller Covers gauges with full scale of 100 mTorr to 1000 Torr



Diaphragm Manometers are widely used because of their ability to measure absolute pressurewith gas-species independent readings and for their immunity to contamination/corrosion.

The Terranova Model 809 Diaphragm Gauge Controller displays vacuum pressure as measured from capacitance and piezo diaphragm gauges. The 809 supplies ±15 volts to operate un-heated diaphragm gauges and precisely measures the 0 to 10 volt signal from the Diaphragm Gauge to determine pressure. The 809 is housed in a 1/8 DIN enclosure and is simple to operate.

The 809 offers a low cost, single gauge control/display for ease of operation in many applications.

The process control set point relay has an isolated output and is rated at 240 VAC at 2 amps to allow direct control of small motors and actuators.

The 809 uses an advanced power supply design, which operates on any input from 100 VAC to 240 VAC. Major features include:

- low cost
- simple operation
- gas-species independent readings
- small 1/8 DIN size

- calibrated linear analog output
- interfaces to many diaphragm gauges
- one process control set point
- universal power input

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

Specifications

Useful Measuring Range 3 decades; for diaphragm gauges with full scale of 100

mTorr to 1000 torr; decimal point selection is entered on

the front panel by the user

Display Range 1 mTorr to 1000 torr; pressures higher than

1000 torr displays HI

Accuracy of Gauge Interface The 809 incorporates a high-resolution input circuit

which allows the use of the diaphragm manometer over

3 decades.

Input to the 809 Controller 0 to 10 volts for full scale of the gauge

Units of Display Torr

Vacuum Gauge one diaphragm manometer

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

Pressure Display 3+ digit 7-segment bright red LED, 10 mm high

Display Indicators bright red individual LED for miscellaneous

indicators; 7-segment LED for digits

Adjustments Zero, span, set-point value, decimal point position

Process Control Set Point One relay, 2 amp @ 30 VAC Resistive

1 amp @ 120 VAC Resistive 0.5 amp @ 240 VAC Resistive

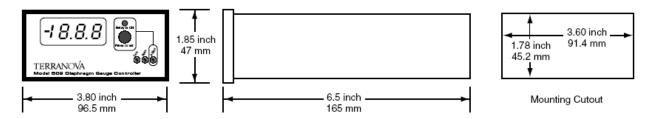
Nonvolatile Memory for all user specified parameters

Analog Output 0 – 10 volts DC

Power Requirement 100-240 VAC, 47-63 Hz

Weight 1 lb. / 0.5 kg

Mounting brackets are provided for panel mounting



Terranova 809 Dimensions and Mounting Cut-Out

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