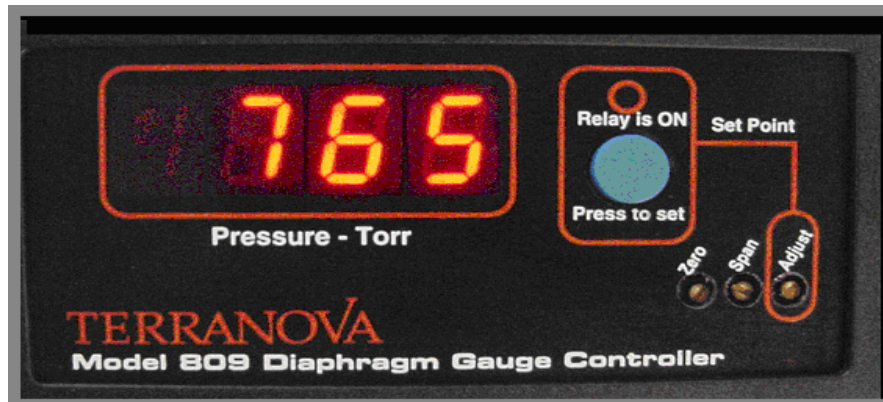


Terranova Model 809

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 pressure with 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;

- 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

Specifications Terranova 809

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

+2 to +50 degrees Celsius

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 Relays

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

Operating Voltage

universal input, 100-240 VAC, 47-63 Hz;
30 VA; IEC 320 instrument power input
receptacle on rear panel

Weight

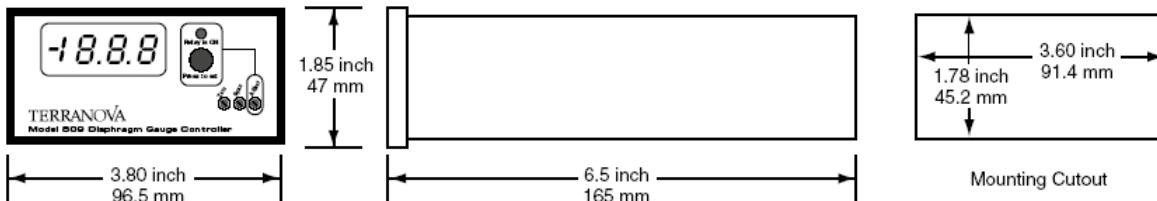
1 lb. / 0.5 kg

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



Terranova 809 Dimensions and Mounting Cut-Out



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