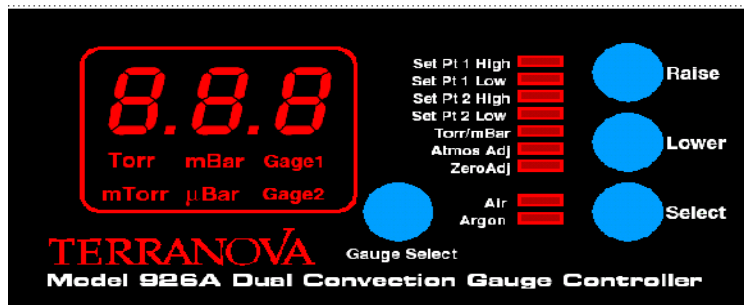


# Terranova Model 926A

## Dual Convection Vacuum Gauge Controller

1/8 DIN Package Operates MKS 317 Convection Enhanced Pirani, ConvecTech™ or G-P 275 CONVECTRON® gauges

Measures from 0.1 mtorr to 1000 torr



Terranova's Model 926A Gauge Controllers offer significant advances in performance and cost savings over other controllers for convection gauges.

The Model 926A allows control of two convection gauges; either gauge is easily read by selection from the front panel; both gauges are kept active, so readings are rapid. In addition, the RS-232 allows immediate reading of either gauge. The 926A is housed in a 1/8 DIN enclosure, half the size of 1/4 DIN enclosures, the industry norm. This size reduction allows the user greater latitude in system design.

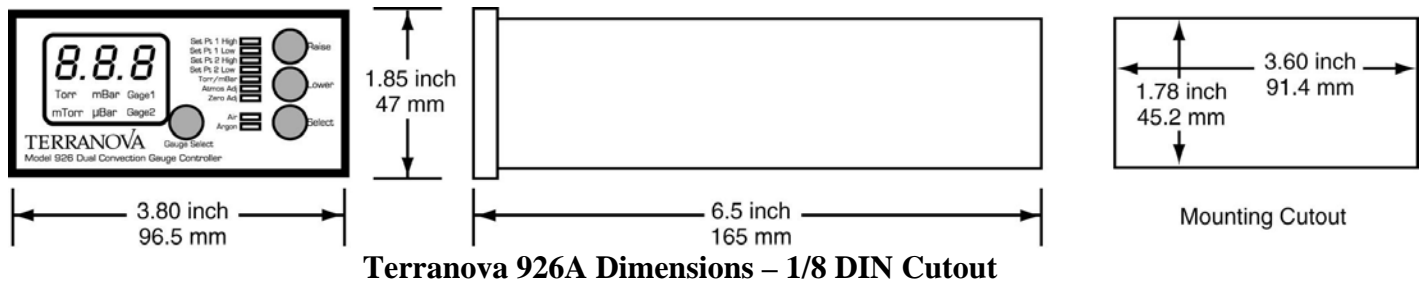
The 926A can measure the pressure of either air or argon; the pressure response for both gases is accurate to 1% of the sensor manufacturer's data.

The Model 926A measures to lower pressure than other controllers, to 0.1 mTorr. A precise logarithmic analog output makes data collection easy; other convection gauge controllers have highly nonlinear outputs requiring cumbersome lookup tables or several polynomial equations to calculate the pressure.

Small motors and actuators may be controlled by the two heavy-duty process-control relays; the relays may be assigned to either gauge. The process-control set points have adjustable hysteresis for added flexibility.

The Terranova 926A is the most advanced controller you can get for convection sensors

- high performance; low cost
- calibrated response for Air and Argon
- measures to 0.1 mtorr
- 1/8 DIN package-compact
- two process control set points
- CE and UL listed
- serial input/output
- calibrated logarithmic analog output



## SPECIFICATIONS

### Vacuum Gauge Sensors

MKS/HPS Type 317 CEP or  
G-P 275 CONVECTRON® or equivalent

### Measuring Range

0.1 mTorr to 995 Torr, for Air or Argon

### Gas Selection

user may select Air or Argon

### Display Range

pressures below lowest range display LO;  
pressures higher than 995 Torr display HI;  
if cable is not plugged in display shows OFF

### Display Resolution

varies; from 0.1 mTorr below 10 mTorr,  
5 Torr above 100 Torr

### Process Control Set Points and Relays

either or both set points may be assigned to  
limits for either convection gauge; two relays,  
contacts rated  
2 amp/240 VAC, 30 VDC

### Analog Output

true logarithmic, 0.50 volts/decade:

### Environmental Considerations

not for use with explosive or corrosive gases

### Serial Input/Output Interface

easy to use protocol: send “p” (ASCII 112),  
pressure is returned; e.g. 54e-3 for 54 mTorr;  
RS-232 is standard, 9600 baud, 8N1.

### Units of Display

User may select Torr or mBar

### Pressure Display

3-digit bright red LED, 10 mm high;  
selection of Gauge 1 or Gauge 2 by front  
panel button

### Display Indicators

bright red LED for single indicators; backlit  
LED bars for units and gauge selection

### Operating Temperature Range

+2 to +50 deg. Celsius

### Operating Voltage

universal input, 85 - 265 VAC, 30 VA; industry.  
standard IEC 320 instrument power input

### Weight

1 lb. / 0.5 kg

### Mounting

Side clips are provided for panel mounting in  
standard 1/8 DIN cutout (see above)



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