

# Terranova Model 960

## CVT + CCG Gauge Control/Display

For Use with Model CVT-275 Convection Gauges and  
Model CCG-525 Cold Cathode Gauges



The Terranova Model 960 CVT-CCG Vacuum Controller displays vacuum pressure as measured from both a Cold Cathode gauge (CCG) and a Convection Enhanced Pirani (CVT) gauge. The 960 is housed in a 1/8 DIN enclosure and is simple to operate.

For the Model 525 CCG, the 960 supplies -2000 VDC and senses the ion current, (which is proportional to the pressure) and displays the pressure.

The pressure range for the Model 525 CCG is  $1 \times 10^{-8}$  torr to  $1 \times 10^{-2}$  torr.

For the CVT/Convection gauge, the 960 displays vacuum pressure as measured from a CVT-275 Convection gauge tube or the G-P/Helix/Brooks Convectron® gauge tube. It displays vacuum readings based on thermal conductivity of air/nitrogen or argon, (user selectable.)

The pressure range for the CVT-275 is  $1 \times 10^{-4}$  torr to  $1 \times 10^{+3}$  torr.

Some major features include:

- Autoranging over the full range of CVT plus CCG.
- User Selectable Pressure Units: Torr, mBar, Pascal.
- 2 Programmable Process Control Set Points.
- RS 232 Serial I/O for Data Collection and Computer Control
- Analog Logarithmic Output for Monitoring Pressure
- CE/UL Conformance for EMI, EMC and Safety
- Universal AC Input: 90-265 Volts; 47-65 Hz
- Compact, 1/8 DIN Packaging

**DUNIWAY**  
**STOCKROOM CORP.**

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

[www.duniway.com](http://www.duniway.com)

## Terranova 960 Specifications

### Measuring Range

$1.3 \times 10^{-8}$  mbar to  $1 \times 10^{+3}$  mbar.  
 $1.0 \times 10^{-8}$  torr to  $1 \times 10^{+3}$  torr  
 $1.3 \times 10^{-8}$  Pascal to  $1 \times 10^{+5}$  Pascal

**HI** indicates overrange - **LO** indicates underrange

### Display Resolution

2 digits with a one digit exponent

### Units of Display

Torr, mBar, Pascal: user selectable

### Operating Temperature

0 to +40 degrees Celsius

### Process Control Set Points

Two relays may be independently set from  $1 \times 10^{-8}$  Mbar to  $8 \times 10^{+2}$  mbar. Contacts rated at 60 VDC or 30 VAC at 2 amp; the relays are internally fused.

### Nonvolatile Memory

For all user specified parameters

### Analog Output

Logarithmic, 0.5 volts / decade

### Mounting

The Model 960 may be used as a bench-top instrument or mounted in an instrument panel with clips provided.

### RS-232 Output

Allows user to read pressure and set points; 9600 baud,

### Power Requirement

90 - 265 Volts; 47 - 65 Hz or DC

### Weight

0.9 lb. /0.4 kg

### Repeatability

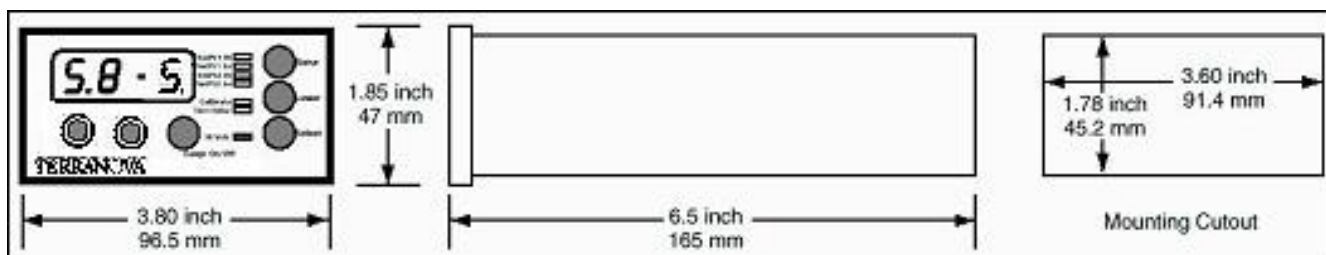
Approximately +/- 5%

### Relative Humidity

0 -80%, non-condensing

### Altitude

0-2000 m (6561 ft.) maximum



**Terranova 960 (1/8 DIN) External Dimensions**