



# Terranova<sup>®</sup> 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 Convecatron<sup>®</sup> 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.

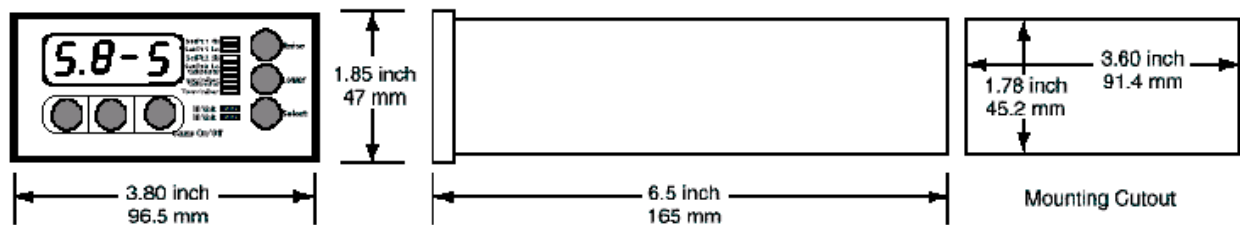
Major features include:

- 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

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## Specifications

<b>Measuring Range</b>	1.3 x 10 <sup>-8</sup> mbar to 1x10 <sup>+3</sup> mbar. 1.0 x 10 <sup>-8</sup> torr to 1x10 <sup>+3</sup> torr 1.3 x 10 <sup>-8</sup> Pascal to 1x10 <sup>+5</sup> Pascal <b>HI</b> indicates over range - <b>LO</b> indicates under range
<b>Display Resolution</b>	2 digits with a one digit exponent
<b>Units of Display</b>	Torr, mBar, Pascal: user selectable
<b>Operating Temperature</b>	32°F to 104°F (0°C to +40°C)
<b>Process Control Set Points</b>	Two relays may be independently set from 1x10 <sup>-8</sup> Mbar to 8x10 <sup>+2</sup> mbar. Contacts rated at 60 VDC or 30 VAC at 2 amp; the relays are internally fused
<b>Nonvolatile Memory</b>	For all user specified parameters
<b>Analog Output</b>	Logarithmic, 0.5 volts / decade
<b>Mounting</b>	The Model 960 may be used as a bench-top instrument or mounted in an instrument panel with clips provided
<b>RS-232 Output</b>	Allows user to read pressure and set points; 9600 baud
<b>Power Requirement</b>	90 - 265 Volts; 47 - 65 Hz
<b>Weight</b>	0.9 lb. /0.4 kg
<b>Repeatability</b>	Approximately +/- 5%
<b>Relative Humidity</b>	0 -80%, non-condensing
<b>Altitude</b>	0-2000 m (6561 ft.) maximum



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