



Terranova[®] Model 905

Dual Modular Gauge Control/Display

For Use With MKS/HPS Modular Transducers:

Series 903 Cold Cathode & Series 907 Analog Convection Vacuum Sensors



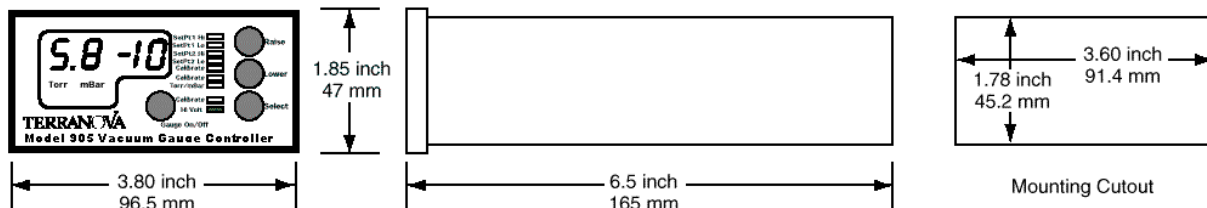
The Terranova Model 905 Dual Modular Gauge Control/Display is designed to work with MKS/HPS Modular Transducers to display pressure over a 14 decade range. It is designed to supply the operating voltages and display the pressure readings from the MKS/HPS Series 907 Analog Convection Vacuum Sensor and the Series 903 Cold Cathode Ionization Sensor.

The Terranova Model 905 is a programmable, microprocessor controlled unit, which gives it great versatility in operation, display, control and data communication. Major features include:

- Operates either MKS/HPS Series 903 or Series 907 transducer or both.
- Model 905 automatically detects transducer configuration at start-up
- Autoranging display of 14 decades of pressure when used with both transducers.
- 1 X 10⁻³ Torr to 1 X 10⁺³ Torr with Series 907 Convection transducers
- 1 X 10⁻¹⁰ Torr to 5 X 10⁻³ Torr with series 903 Cold Cathode transducer
- 3 X 10⁻¹⁰ Torr to 1 X 10⁺³ Torr with both transducers
- 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 Conformance for EMI, EMC and Safety
- Universal Power Supply: 90-265 Volts; 47-65 Hz or DC
- Compact, 1/8 DIN Packaging

Specifications

| | |
|--------------------------------------|--|
| Measuring & Display Range | 903 3.0×10^{-10} to 5.0×10^{-3} Torr 907 1.0×10^{-3} to $1.0 \times 10^{+3}$ Torr 907 and 903 3.0×10^{-10} to $1.0 \times 10^{+3}$ Torr (dual sensor operation) |
| Set Point Range | 903 3.0×10^{-10} to 1.0×10^{-3} Torr 907 1.0×10^{-2} to $1.0 \times 10^{+3}$ Torr |
| Display Resolution | 2 digits with an exponent |
| Units of Display | Torr, mBar, Pascal: user selectable |
| Calibration Adjust | Calibration routines are provided, for sensors connected at power up. 907 sensor: Vacuum and Atmosphere adjustments 903 sensor: Sensitivity Adjustment 0.5 - 2.0 |
| Process Control Set Points | Two relays may be independently assigned to either gauge. Contacts rated at 60 VDC or 30 VAC at 2 amp; internally fused. |
| Analog Output | Logarithmic, 0.5 volts / decade |
| Output Power | +15 volts at 0.35 amp, sufficient to operate the MKS 907 and 903 |
| Mounting | The Model 905 may be used as a bench-top instrument or it may be mounted in an instrument panel with clips provided. |
| RS-232 Output | Allows user to read pressure and set points |
| Power Requirement | 90 - 265 Volts; 47 - 65 Hz or DC |
| Relative Humidity | 0 -80%, non-condensing |
| Operating Temperature | 32°F to 105°F (0°C to 40°C) |
| Altitude | 0-2000 m (6561 ft.) maximum |
| Weight | 0.9 lb. /0.4 kg |



Model 905 Dimensions