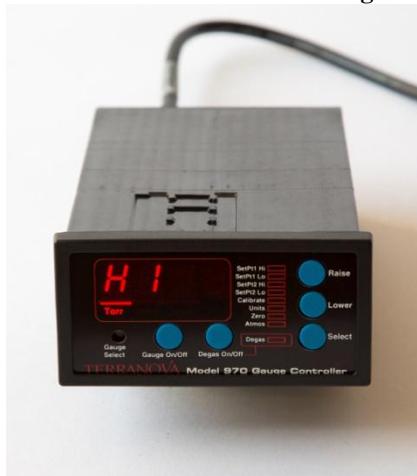




Terranova[®] Model 970

Multi-Modular Gauge Control/Display

For Use with MKS/HPS Modular Gauges and
Inficon BPG400 Combi Gauge



The Terranova Model 970 Vacuum Gauge Controller displays pressure from 5×10^{-10} Torr to 1500 Torr, as measured from the MKS/HPS Series 910, 925C, 972, 979B; Inficon BPG-400 Combi Gauge and other modular vacuum transducers

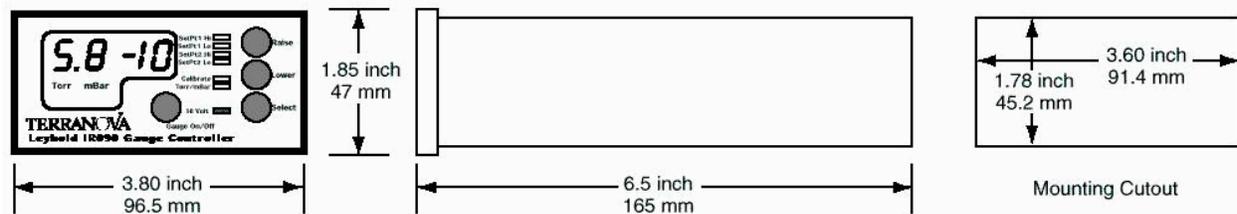
The Terranova Model 970 is a programmable, microprocessor controlled unit, which gives it great versatility in operation, display, control and data communication.

Major features include:

- User may configure the 970 to operate many MKS/HPS modular pressure transducers including the 910-Dual Piezo-Pirani, 925C-Micro-Pirani, 972 Cold Cathode-Pirani, 979B-Pirani BAG; the Inficon BPG-400 BAG-Pirani Combi Gauge and others.
- Autoranging display over the full range of pressure of the transducer selected.
- 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 Power Supply: 90-265 Volts; 47-65 Hz or DC
- Compact, 1/8 DIN Packaging

Specifications

Measuring Range	<i>(subject to transducer specifications)</i> 1.3 x 10 ⁻¹⁰ mbar to 3x10 ⁺³ mbar. 1.0 x 10 ⁻¹⁰ Torr to 2x10 ⁺³ Torr 1.3 x 10 ⁻⁸ Pascal to 3x10 ⁺⁵ Pascal HI indicates overrange - LO indicates underrange
Display Resolution	2 digits with a two digit exponent
Repeatability	Approximately +/- 5%
Units of Display	Torr, mBar, Pascal: user selectable
Process Control Set Points	Two relays may be independently set from 1x10 ⁻⁹ Mbar to 8x10 ⁺² mbar. Contacts rated at 60 VDC or 30 VAC at 2 amp; the relays are internally fused.
Analog Output	Logarithmic, 0.5 volts / decade
Output Power	+24 volts at 0.35 amp, sufficient to operate the Leybold Inficon IR090 SKY tm Hot Ion Combi Gauge.
Mounting	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
Power Requirement	90 - 265 VAC; 47 - 65 Hz
Weight	0.9 lb. /0.4 kg
Operating Temperature	32°F to 104°F (0°C to +40°C)
Relative Humidity	0 -80%, non-condensing
Altitude	0-2000 m (6561 ft.) maximum



970 External Dimensions