Terranova Model 990

Gauge Control/Display

Continuous Measurement Over 13 Decades of Vacuum For Use With Leybold/Inficon SKYtm IR090 Combi Gauge



The Terranova Model 990 Vacuum Gauge Controller displays pressure from 5x10⁻¹⁰ mBar to 1000 mBar, as measured from the Leybold Inficon IR090 SKYtm Hot Ion Combi Gauge. The Model 990 precisely measures the analog signal from the transducer to determine pressure. When autoranging, the Model 990 automatically smooths the pressure reading over the range of overlapping pressures.

The Terranova Model 990 is a programmable, microprocessor controlled unit, which gives it great versatility in operation, display, control and data communication. Some major features include:

- Operates the Leybold Inficon IR090 SKYtm Hot Ion Combi Gauge transducer.
- Autoranging display of 13 decades of pressure with one vacuum connection.

 $5x10^{-10}$ mbar to $1.1x10^{+3}$ mbar. $4x10^{-10}$ torr to $8.3x10^{+2}$ torr $5x10^{-8}$ pascal to $1.1x10^{+5}$ pascal

- Gauge combines two proven sensor technologies in compact, rugged package:

Long-life Bayard-Alpert, hot filament sensor

Fast-response double Pirani sensor

- 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



1305 Space Park Way - Mountain View - CA - 94043 Phone: 1-800-446-8811 / 651-969-8811 / FAX: 650-965-0764

www.duniway.com

Terranova 990 Specifications

Measuring Range

> HI indicates overange LO indicates underange

Display Resolution 2 digits with a two 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 $1x10^{-9}$

mbar to $8x10^{+2}$ 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

Output Power +24 volts at 0.35 amp, sufficient to operate the Leybold

Inficon IR090 SKYtm Hot Ion Combi Gauge.

Mounting The Model 990 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,

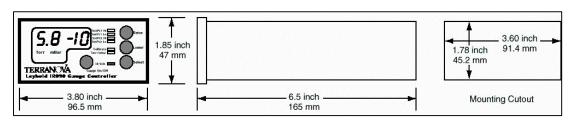
Power Requirement 90 - 265 Volts; 47 - 65 Hz or DC

Weight 0.9 lb. /0.4 kg

Repeatability Approximately +/- 5%

Relative Humidity 0 -80%, non-condensing

Altitude 0-2000 m (6561 ft.) maximum



Terranova 990 External Dimensions