

Terranova Model 970

Multi-Modular Gauge Control/Display

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



INFICON BPG-400

MKS-979B

TERRANOVA 970

MKS-972

MKS-910

MKS-925C

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.

Some 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

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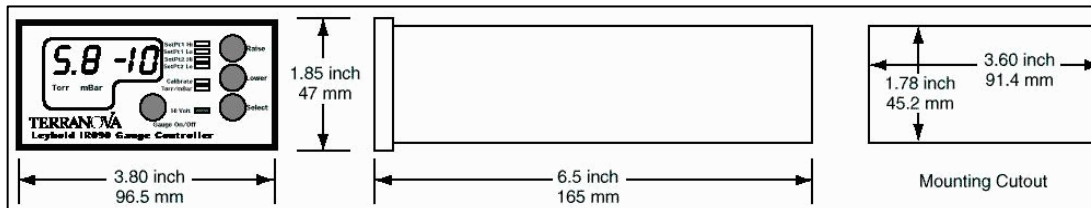
Terranova 970 Specifications

Measuring Range *(subject to transducer specifications)*

1.3×10^{-10} mbar to $3 \times 10^{+3}$ mbar.
 1.0×10^{-10} torr to $2 \times 10^{+3}$ torr
 1.3×10^{-8} Pascal to $3 \times 10^{+5}$ Pascal

HI indicates overrange - **LO** indicates underrange

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 1×10^{-9} 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
Output Power	+24 volts at 0.35 amp, sufficient to operate the Leybold Inficon IR090 SKY™ Hot Ion Combi Gauge.
Mounting	The Model 970 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 970 (1/8 DIN) External Dimensions