



Terranova 924A

Technical Specifications

Useful Measuring Range

1 mTorr (μ bar) to 990 Torr (mbar), for air or nitrogen; (10^{-3} torr (mbar) to 10^3 torr (mbar)); range selection is automatic

Display Range

-19 mTorr (μ bar) to 990 torr (mbar); pressures lower than -19 mTorr (μ bar) display LO; pressures higher than 990 torr (mbar) display HI; if cable is not plugged in display shows OFF

Vacuum Gauge

Varian 531 or 536 thermocouple gauge or equal

Operating Temperature Range

+2 to +50 deg. Celsius

Pressure Display

3-digit bright red LED, 10 mm high

Display Indicators

bright red LED for VAC, ATM, SET PT 1, SET PT 2

Display Resolution

varies; from 1 mTorr (μ bar) below 10 mTorr (μ bar), to 20 Torr (mbar) above 100 Torr (mbar)

VAC and ATM Adjust

adjusted by front panel push-button

Process Control Set Points

two, adjusted by front panel push-button

Process Control Relays

two relays, 3 amp, 240 VAC contacts; independent Normally Open and Normally Closed; +5 volts is provided for TTL applications; available through the DB15 accessory connector

Nonvolatile Memory

for VAC, ATM and SET POINTS

Analog Output

calibrated, 12-bit resolution, logarithmic, 0.50 volts/decade; 0.0 mTorr (μ bar) = 0 volts; 10 mTorr (μ bar) = 0.50 volts; 100 mTorr (μ bar) = 1.00 volts; etc.; available through the DB15 accessory connector

RS-232 Input/Output

allows user to read pressure and set points; 9600 baud, 8-N-1; available through the DB15 accessory connector

Operating Voltage

the Model 924A has a universal power supply, which operates on input voltages from 85 VAC to 240 VAC 50/60 Hz; standard IEC 320 instrument power input receptacle on rear panel; replacement fuse type: 5 mm X 20 mm, regular or slow-blow 1 amp

Weight

1 lb. / 0.5 kg

Mounting

Side clips are provided for panel mounting in standard 1/8 DIN cutout.

Environmental Considerations

not for use with explosive or corrosive gases



Terranova 924A Features & Benefits

- low cost of operation
- two process control set points
- RS-232 serial input/output
- universal power supply
- calibrated logarithmic analog output
- displays vacuum measurements based on thermal conductivity of air or nitrogen

Dimensions

