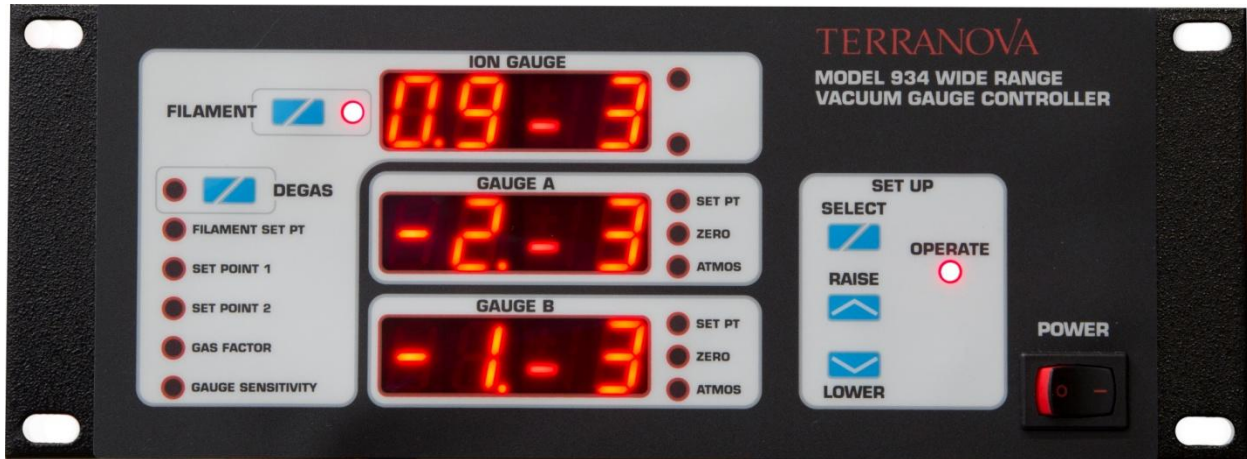




Terranova[®] Model 934 & 934-UHV

Wide Range Vacuum Gauge Controller

Controls One Ionization Gauge and Two Low Vacuum Gauges



The Terranova Model 934 displays pressure from one 563-type Bayard-Alpert ion gauge (for high- and ultra-high vacuum environments) and two low-vacuum gauges (either 531-type thermocouple gauges or convection gauges, depending upon the purchased configuration).

The Terranova Model 934-UHV displays pressure from either a Bayard-Alpert ion gauge or a UHV-24 nude ion gauge and two low vacuum gauges.

Major features include:

- **Wide range:**
 - ion gauge: 2 x 10⁻¹⁰ Torr to 10⁻² Torr (Model 934)
 - ion gauge: 2 x 10⁻¹¹ Torr to 10⁻² Torr (Model 934-UHV)
 - low-vacuum gauges: 10⁻³ Torr to 990 Torr (thermocouple)
 - low-vacuum gauges: 10⁻³ Torr to 1200 Torr (convection)
- **Controls and displays:**
 - easy-to-use, intuitive front panel
 - large, bright, digital displays for ion gauge and low-vacuum gauges
- **Degassing:**
 - resistance heating of the grid (Model 934)
 - electron bombardment (Model 934-UHV)
- **Relay control:**
 - set points for four relays; each relay has independent normally-open and normally-closed contacts

Specifications

Displays	Large, bright red, digital LED displays -- one for ion gauge and two for low-vacuum gauges.
Gas Factor	A multiplier that allows you to compensate the display for gases other than air or nitrogen. The range of the gas factor is from 0.50 to 1.50, and can be set from the front panel
Ion gauge ranges	air, nitrogen, argon: 2×10^{-10} Torr to 10^{-2} Torr (Model 934) air, nitrogen, argon: 2×10^{-11} Torr to 10^{-2} Torr (Model 934-UHV)
Thermocouple gauge	10^{-3} Torr to 990 Torr
Convection gauge	10^{-3} Torr to 1200 Torr
Set Points	One for ion gauge filament on/off and four process control. Relays have independent sets of normally-open and normally closed contacts. All relay contacts are rated for 6 A at 250 VAC or 4 A at 30 VDC
Analog Output	Logarithmic at 0.5 volts per decade
Computer Interface	RS-232 port on back panel provides computer interface for front panel controls and indicators..
Range Selection	Automatic ion gauge ranging over 7 decades, depending on emission current, within the ranges: 10^{-10} Torr to 10^{-2} Torr for Model 934 10^{-11} Torr to 10^{-2} Torr for Model 934-UHV.
Filament Control	Front panel control or RS-232 computer control. Automatic filament shutoff at pressures > than 9.9×10^{-3} Torr for air.
Degassing	Resistance heating of grid (Model 934) or electron bombardment (Model 934-UHV)
Power Requirement	100, 120, 220, or 240 VAC, 50-60 Hz; 100 VA. Input voltage is user-selectable from back panel.
Operating Temperature	32°F to 104°F (0°C to +40°C)
Dimensions	9.5 in (24.1 cm)W x 3.5 in (9.0 cm)H x 15 in (38 cm) deep
Weight	9 lb (4.1 kg)