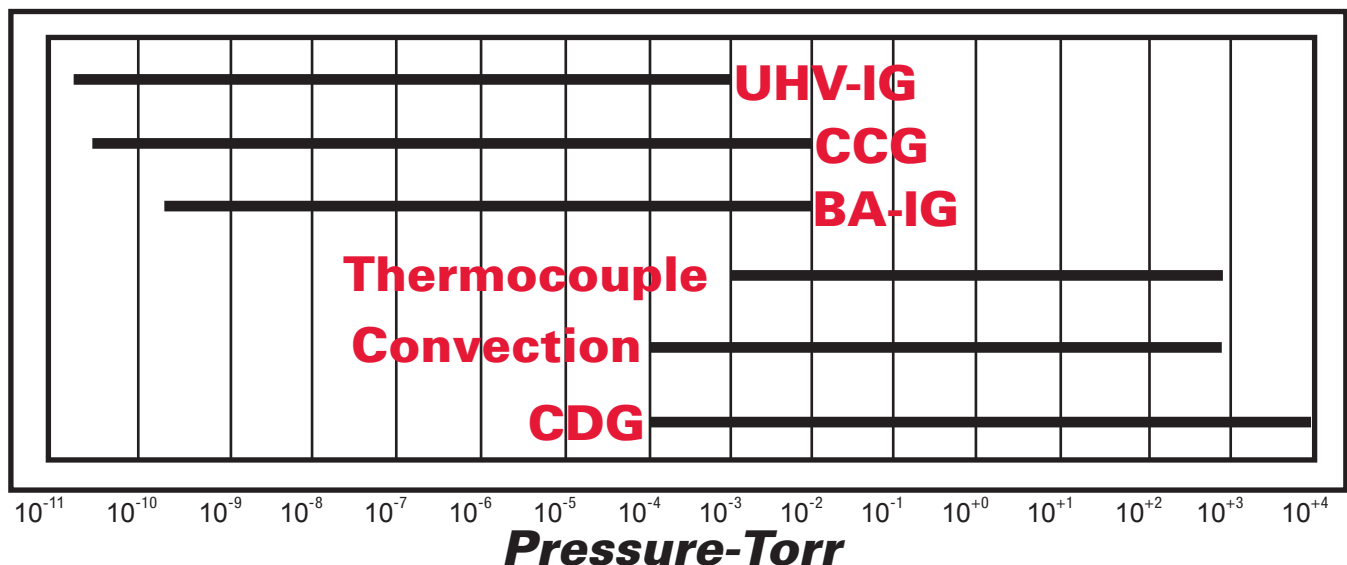


TERRANOVA VACUUM CONTROLLERS AND VACUUM SENSORS

RANGES - KEY FEATURES - APPLICATION - LIMITATIONS

GAUGE/SENSOR TECHNOLOGY	TERRANOVA MODEL	USEFUL PRESSURE RANGE - TORR	APPLICATIONS	SPECIAL SENSOR CONSIDERATIONS
Thermocouple	924	10^{-3} to ATM	Roughing gauge	Limited accuracy above 10 torr. Sensitive to contamination. Requires correction factor for gas species other than air.
Convection/Pirani	906/926	10^{-4} to ATM	Roughing gauge, Limited Gas Control	Sensitive to contamination. Requires correction factor for gas species other than air.
Dual Capacitance Diaphragm	908A	10^{-4} to 10^{+4} (with multiple sensors)	Precision Pressure Control, any Gas Species	High accuracy independent of gas species. Each sensor accurate for 3-1/2 decades below its full scale range.
Low-Cost, Single Diaphragm	809	3 1/2 decades between 10^{-4} and 10^{+4} depending on sensor chosen	Accurate Pressure Measurement, Gas Species Independent	Low cost diaphragm sensor control/display
Bayard-Alpert Ionization	934*	10^{-10} to 10^{-2}	High Vacuum Measurement and Control	Choice of Tungsten or Thoria-coated Iridium filaments. (*934 also includes option of 2 thermocouple or 2 convection roughing gauges.)
UHV-Ionization	934*	10^{-11} to 10^{-3}	Ultra-High Vacuum Measurement and Control	Choice of Tungsten or Thoria-coated Iridium filaments. (*934 also includes option of 2 thermocouple or 2 convection roughing gauges.)
Convection + Cold Cathode	960	1×10^{-8} to ATM	Roughing plus rugged, reliable high vacuum	Single display for wide range, reliable pressure measurement..
Hybrid: Convection - Capacitance	907	10^{-4} to 10^{+4}	Roughing plus precision gas control	Single display, with a convection gauge for roughing and a CDG gauge for precision gas backfill.
Multi-Modular	970	10^{-10} to 2 ATM	Roughing, backfill plus UHV measurement/control	Single display -single sensor from a variety of choices.

Gauge Range Chart



VACUUM GAUGES