

Pressure/Vacuum Measurement

**Baratron® Direct (Gas Independent)
Pressure/Vacuum Capacitance Manometers
(0.01-155,000 Torr)**

**HPS® Vacuum Transducers, Gauges, Sensors
and Controllers (1x10⁻¹¹ to 1500 Torr)**

Pressure/Vacuum Switches

MultiGas™ 2030 FTIR Gas Analyzer



High speed, high sensitivity analysis of NO, NO₂, N₂O, NO_x & NH₃ and much more

[LEARN MORE](#)

Convection-Enhanced Pirani Sensors from HPS®

The [HPS® convection-enhanced Pirani sensor](#) provides dependable and stable pressure measurement at a very low cost.

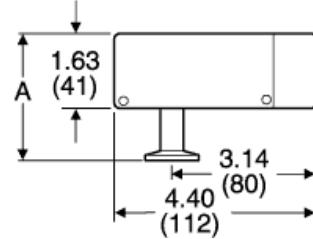
Since the only materials exposed to vacuum are stainless steel, nickel, glass, and platinum, the sensor is compatible with a wide array of process gases and is especially suitable for UHV applications. The platinum alloy filament effectively eliminates any reading variance throughout a convection sensor's higher measuring range.

More accurate than a thermocouple sensor, the HPS® convection-enhanced Pirani sensor measures over a wider pressure range and responds more rapidly to process pressure changes. The upper measuring limit of a convection-enhanced Pirani sensor is increased over that of a traditional Pirani sensor from 100 Torr to 1000 Torr. This higher limit is useful when monitoring the pumpdown of a vacuum system from atmosphere to a base pressure.

The sensor is compensated for any changes in room temperature ranging from 10 to 50C. This sensor can be baked to 100C, with the electronics removed and the cable and controller disconnected. A version of the sensor that can be baked to 250C is available as a special.

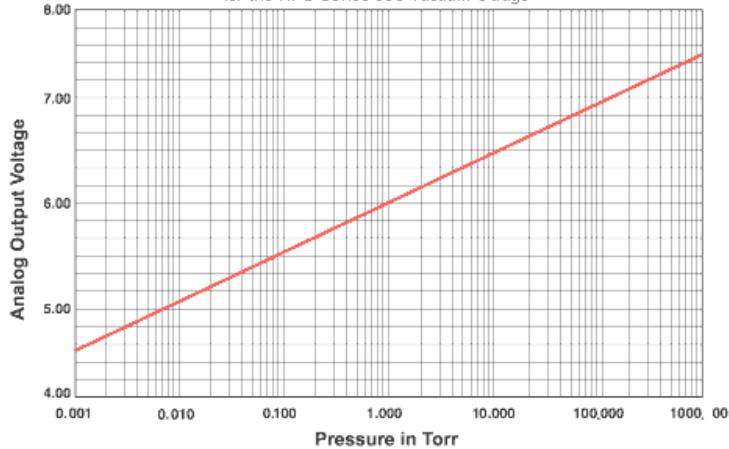
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Fitting	A
NW 16 KF	2.76/(70)
NW 25 KF	2.76/(70)
1-1/3" CF	3.06/(78)
2-3/4" CF	2.73/(69)
8 VCR-F	2.83/(72)
4 VCR-F	2.51/(64)
1/8" NPT-M	2.93/(74)
15 & 18 mm tube	3.19/(81)



Convection Pirani Pressure to Voltage Curve

for the HPS Series 959 Vacuum Gauge



Next:

[Series 959 Vacuum Gauge](#)

[Hot Cathode Sensors](#)

Need help?

Contact an Application Specialist by [sending an email to MKS Vacuum Technology](#) or call 303-449-9861.



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