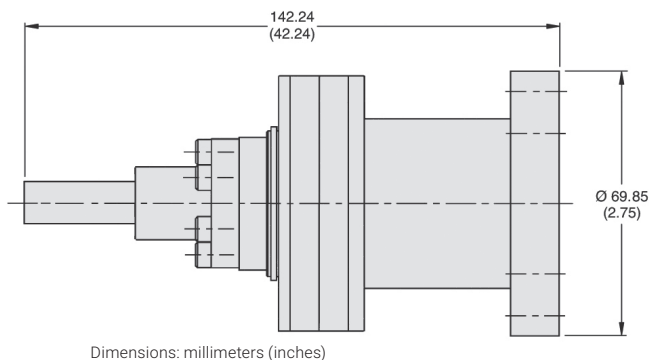


IMG-300 UHV Inverted Magnetron Gauge



The Agilent IMG-300 Inverted Magnetron gauge combines excellent ultra-high vacuum (UHV/XHV) measurement capability where stable UHV/XHV pressure measurement and fast pressure response are equally critical. It spans a range from 1×10^{-3} to 1×10^{-11} Torr (1.3×10^{-3} to 1.3×10^{-11} mbar).

This passive gauge has minimal outgassing and is electron and photon emission-free, eliminating disruption to the experimental process.

This cold cathode UHV/XHV gauge is easily interfaced with the Agilent XGS-600 Gauge controller for integration into a variety of vacuum systems. This sensor is fast starting at low pressure and optimized for UHV applications such as particle accelerators, synchrotron light beam lines, and energy research applications.

Technical Specifications

Measurement range
1.0 x 10 ⁻³ to 1.0 x 10 ⁻¹¹ Torr; 1.3 x 10 ⁻³ to 1.3 x 10 ⁻¹¹ mbar
Measurement precision
±50%
Temperature limits
Operating: 0 °C to 250 °C; storage: –15 to 80 °C
Bake out temperature
250 °C maximum with cable and magnet attached
Pressure response time
< 10 milliseconds for increasing pressure
Ignition response (starting time)
< 5 seconds at pressures > 1E-6 Torr, typically 20 min @ 1E-10 Torr
Operating voltage (HV range)
3kV DC
Materials exposed to vacuum
304L Stainless steel, Nickel, 2% Thoriated Tungsten, and ceramic
Sensitivity
2.5A/Torr
Radiation Resistance
10 ⁹ Rad

Ordering Information

Description	Part Number	Fitting	Shipping Weight kg (lbs)
IMG-300	R0343301	DN 40 CFF (2.75 in CFF)	1.0 (2.0)

Cable ordering

Cables	Length					
Description	10ft	25ft	50ft	75ft	100ft	Others
IMG gauge Non- bakeable cable	R03113010	R03113025	R03113050	R03113075	R03113100	R03113135 – 135 ft R03113165 – 165 ft R03113200 – 200 ft
IMG gauge Bakeable cable up to 250°C	R03413010	R03413025	R03413050		R03413100	R03413065 – 65 ft R03413115 – 115 ft R03413165 – 165 ft

Contact information

Americas

Agilent Technologies
121 Hartwell Avenue,
Lexington, MA 02421 USA
Toll free: +1 800 882 7426
vpl-customer@agilent.com

Europe, Middle East, Africa, India

Agilent Technologies Italia SpA
Via F.lli Varian 54,
10040 Leini (Torino), Italy
Tel: +39 011 9979 111
Toll free: 00 800 234 234 00
vpt-customer@agilent.com

China

Beijing Office Agilent Technologies (China) Co. Ltd.
No.3, Wang Jing Bei Lu,
Chao Yang District,
Beijing, 100102, China
Toll free: 800 820 6778
Contacts.vacuum@agilent.com

For more information, please contact
your Agilent representative or visit
www.agilent.com/chem/vacuum where
you can chat live with a vacuum expert.



<https://www.agilent.com/en/product/vacuum-technologies/vacuum-measurement/vacuum-transducers/img-300-uhv-inverted-magnetron-gauge>

DE44449.4857060185

This information is subject to change without notice.

© Agilent Technologies, Inc. 2021
Printed in the USA, September 21, 2021
5994-4131EN