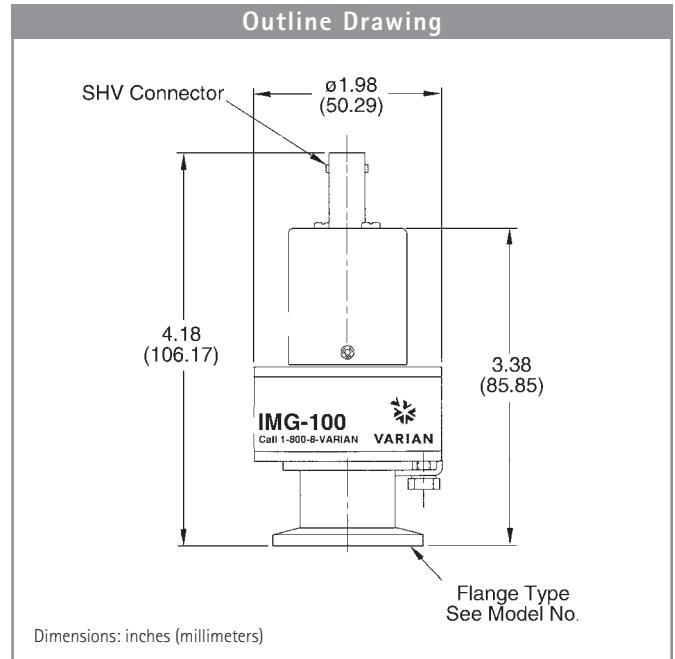


# IMG-100 Inverted Magnetron Gauge



The IMG-100 is a rugged and accurate high vacuum gauge featuring a wide measurement range, fast starting time, good accuracy and superior repeatability in challenging environments. The IMG-100 is ideal for use in industrial applications such as metal deposition, glass coaters, vacuum furnaces, degassing ovens, and electron-beam welders.

The simple design requires no heated filament, so the IMG-100 has an excellent lifetime, is easily serviced, and is tolerant of sudden or frequent exposure to atmosphere. Further, there is less risk of heat from the gauge interfering with a critical experiment or process. The compact size allows flexible installation in any orientation, while the locking SHV high-voltage connector ensures safety and positive electrical contact. A precisely designed magnetic field constrains ionized gas molecules for accurate pressure measurement, so emission of stray electrons and photons is minimized.

The IMG-100 is easily interfaced with Varian's XGS-600 gauge controller for integration into a variety of vacuum systems, or for use as a stand-alone pressure measurement tool.

## Technical Specifications

### Measurement Range

1 x 10<sup>-3</sup> Torr to 5 x 10<sup>-9</sup> Torr, 1 x 10<sup>-1</sup> Torr to 7 x 10<sup>-7</sup> Pascal

### Measurement Precision

+ xx % within a pressure decade standard, + xx % with STARRS Calibration

### Temperature Limits

Operating: 0 °C to 80 °C; Storage: -15 to 80 °C

### Bake Out Temperature with Conflat Flange

150 °C maximum with Cable Disconnected

### Ignition Response (Starting time)

T < 5 seconds at pressures < 1 x 10<sup>-6</sup> Torr

### Materials Exposed to Vacuum

300 series stainless steel, nickel, glass (feedthrough)

### Operating voltage

3 kilovolts

### Sensitivity

2.7 A / Torr + 20% at 5 E-06 Torr

## Ordering Information

Description	Part Number	Shipping Weight lbs. (kg)
IMG-100 NW25 KF	R0310301	2.0 (1.0)
IMG-100 NW40 KF	R0310302	2.0 (1.0)
IMG-100 2.75 in. CFF	R0310303	2.0 (1.0)
IMG-100 Maintenance Kit	R0339301	1.0 (0.5)