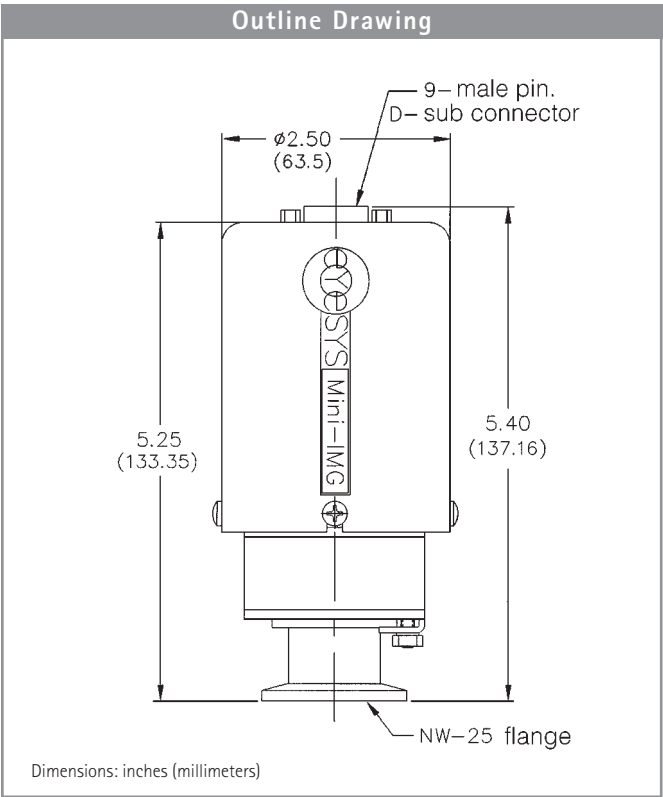


# Eyesys Mini-IMG



Varian Vacuum Technologies introduces the Eyesys Mini-IMG active high-vacuum gauge. The Eyesys Mini-IMG is based on the proven inverted magnetron gauge, providing reliable measurement of pressures  $10^{-3}$  T down to  $10^{-9}$  torr, even in corrosive and dirty applications. The gauge tube may be easily cleaned or replaced. Rack mounted control electronics are not necessary, simply supply +24 VDC power and input the 1 volt/decade analog output to your PC or PLC. Unlike traditional cold cathode designs, Varian's inverted magnetron features fast starting even under high vacuum conditions. The gauge can also be turned on/off remotely via DC voltage signal. On-board LEDs indicate the status of the gauge.



Features	Benefits
• On-board control electronics	• External control equipment not needed
• Rugged, all stainless steel gauge tube	• Reliable measurement in corrosive or dirty applications, no elastomers or o-rings
• Proven inverted magnetron design	• Rapid starting, even in high-vacuum conditions
• Compact size	• Flexible installation
• Standard D-subminiature connector	• Excellent shielding, secure locking connection

### Technical Specifications

#### Gauge Type

Inverted magnetron ion gauge

Maximum voltage when gauge on is approximately 3 kVolts

#### Measurement Range

$1 \times 10^{-3}$  torr to  $2 \times 10^{-9}$  torr

#### Power Requirement

24 VDC  $\pm 10\%$  @ 250 mA, typical

#### Output Signal

0.5 to +8.5 VDC

Scaled 1 volt per decade

Signal below +0.5 VDC indicates error

When +24 VDC is applied, but the gauge tube is not turned on, output will be above +9.0 VDC

#### Electrical Connection

9-pin D-subminiature

#### On-Board Indications

Green LED to indicate 24 VDC power applied

Red LED for gauge on (LEDs located on top of case next to 9-pin D-connector)

#### On-Board Control

Gauge normally turns on when +24 VDC power is applied, however, the gauge may be remotely turned on/off via dedicated pins on the D-sub connector

Gauge ON < 0.5 VDC

Gauge OFF > 0.65 VDC

#### Overpressure Limit

1500 torr (2 Bar)

#### Temperature Limitations

Operating: 0 to 50 °C

Storage: -15 to 70 °C

#### Materials Exposed to Vacuum

300 series stainless steel

Small amount of Nickel, glass (feedthrough)

#### Electrical, Safety Certifications

UL, cUL recognized

CE certified

### Ordering Information

Description	Part Number	Shipping Weight lbs. (kg)
Eyesys Mini-IMG NW25	R1400301	1.0 (0.5)