

# nAIM DIGITAL ACTIVE INVERTED MAGNETRON VACUUM GAUGE

edwardsvacuum.com

**Edwards nAIM series Digital Active Inverted Magnetron vacuum gauges combine the gauge-head and controller in one compact active unit. These are new digital versions of gauges that have proved to be rugged and reliable in a wide range of applications ranging from scientific instruments to industrial processes.**

The nAIM gauges feature compact size for easy installation, a serial output and a replaceable sensor tube. They are also CSA and C/US approved as well as fully RoHS compliant due to their lead-free construction.

## Features and benefits

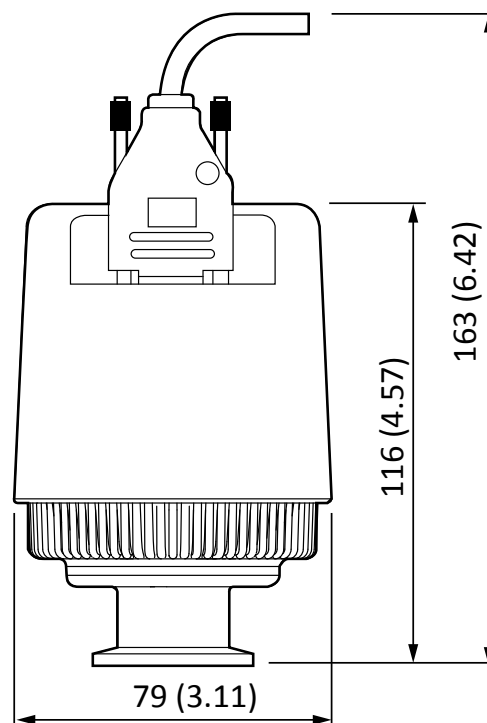
- Wide-range supply voltage allows operation from 15 to 48 V DC
- Gauge naming allows user to store gauge identification data
- Rapid tube replacement without pre-calibration
- Unique striker design ensures rapid striking even at high vacuum or in contaminating conditions
- Low external magnetic field version (L) for sensitive analytical instruments available upon request
- Serial communications based on a simple ASCII, low latency, query and command protocol that can operated in a point to point or multi-drop system with minimum overhead
- Adjustable open collector set-point output for straightforward process control and interlocking
- CSA and C/US approved, meets the safety requirements for electrical equipment for measurement
- RS485 or RS232 versions
- 9600 to 38400 baud, 8bits, 1 start bit, 1 stop bit, no parity



nAIM DIGITAL ACTIVE INVERTED  
MAGNETRON VACUUM GAUGE

Technical Data

| MASS                             |   |
|----------------------------------|---|
| NW25 version                     | 0.81 kg   |
| Internal volume                  | 26 cm <sup>3</sup>  |
| Enclosure rating                 | IP40  |
| PERFORMANCE                      |   |
| Measurement range                | 10 <sup>-2</sup> to 10 <sup>-9</sup> mbar                                 |
| Accuracy typically               | ±30%  |
| Maximum over-pressure            | 10 bar absolute   |
| OPERATING AND STORAGE CONDITIONS |   |
| Temperature range                |   |
| Operating                        | 5 to 60 °C  |
| Storage                          | 0 to 70 °C  |
| Humidity                         | 80% RH up to 31 °C<br>decreasing linearly to 50%<br>RH at 40 °C and above |
| Maximum altitude                 | 3000 m  |
| ELECTRICAL DATA                  |   |
| Electrical supply voltage        | 15 to 48 V DC nominal   |
| Power consumption                | 2 W   |
| Set-point                        | open collector transistor   |
| Rating                           | 48 V DC 100 mA  |



Dimensions mm (inch)

Order Information

| nAIM Digital Active Inverted Magnetron Gauge                        | Order number |
|---|--------------|
| nAIM RS485 NW25 flange  | D14690010    |
| nAIM-I RS485 NW25 flange  | D14690030    |
| nAIM RS232 NW25 flange  | D14690510    |
| nAIM-I RS232 NW25 flange  | D14690530    |
| Other flange sizes and low field version (L) available upon request |              |

| Accessories and spares                          | Order number |
|---|--------------|
| Spare body tube assembly for nAIM-M NW25 flange | D14545801    |
| 1m cable  | D02610001    |
| 3m cable  | D02610003    |
| 5m cable  | D02610005    |

GLOBAL CONTACTS

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