

nAPG DIGITAL ACTIVE PIRANI VACUUM GAUGE

edwardsvacuum.com

Edwards nAPG series Digital Active Pirani vacuum gauges are available in two models. The nAPG-M is the standard model and measures from atmosphere to 10^{-3} mbar, the nAPG-LC is a corrosion resistant version with measurement from atmosphere to 10^{-4} mbar.

Both 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
- Sensor tube can be baked to 150 °C
- Adjustable open collector set-point output for simple process control and interlocking
- NW16 flange for easy connection to vacuum systems – NW25 flange options on 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
- Remote calibration possible
- Cable connections and gauge adjustment conveniently located, thereby minimising the space envelope required for access
- 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



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Technical Data

MASS	
NW16 version	0.85 kg
Internal volume	5 cm ³
Enclosure rating	IP40

PERFORMANCE	
Measurement range	nAPG-M Atmosphere to 10 ⁻³ mbar nAPG-LC Atmosphere to 10 ⁻⁴ mbar
Accuracy	
nAPG-M Typically	±15% at <100 mbar
nAPG-LC Typically	±15% at <10 mbar
Maximum over-pressure	10 bar absolute

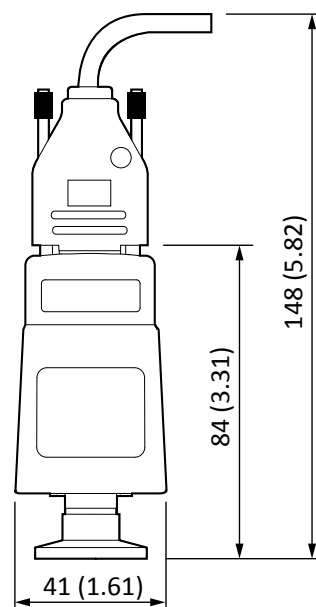
OPERATING AND STORAGE CONDITIONS	
Temperature range	
Operating	5 to 60 °C
Storage	30 to 70 °C
Bake-out with electronics removed	150 °C
Humidity	80% RH up to 31 °C decreasing linearly to 50% RH at 40 °C and above
Maximum altitude	3000 m
Filament temperature	100 °C above ambient

ELECTRICAL DATA	
Electrical supply voltage	15 to 48 V DC nominal
Power consumption	1 W
Set-point	open collector transistor
Rating	48 V DC 100 mA

Order Information

nAPG Digital Active Pirani Gauge	Order number
nAPG-M RS485 NW16 flange	D02690000
nAPG-M RS232 NW16 flange	D02690500
nAPG-LC RS485 NW16 flange	D02691000
nAPG-LC RS232 NW16 flange	D02691500
Other flange sizes available upon request	

Accessories and spares	Order number
Spare sensor tube for nAPG-M NW16 flange	D02601801
Spare sensor tube for nAPG-LC NW16 flange	D02603801
1m cable	D02610001
3m cable	D02610003
5m cable	D02610005



Dimensions mm (inch)

GLOBAL CONTACTS

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Edwards Ltd, registered in England and Wales
No. 6124750, registered office: Manor Royal,
Crawley, West Sussex RH10 9LW, United Kingdom.

EMEA		ASIA PACIFIC	
UK	+44 1293 528844 (local rate) 08459 212223	China	+86 400 111 9618
Belgium	+32 2 300 0730	India	+91 20 4075 2222
France	+33 1 4121 1256	Japan	+81 47 458 8836
Germany	0800 000 1456	Korea	+82 31 716 7070
Italy	+ 39 02 48 4471	Singapore	+65 6546 8408
Israel	+ 972 8 681 0633	Taiwan	+886 3758 1000
		AMERICAS	
		USA	+1 800 848 9800
		Brazil	+55 11 3952 5000

