

AIGX Active Ion Gauge



A compact Active ion gauge with dual yttria coated iridium filaments, a wide measuring range from 6.6×10^{-2} to 6.6×10^{-10} mbar (5×10^{-2} to 5×10^{-10} Torr) and a 1 Volt/decade linear output.

The new AIGX gauge from Edwards incorporates all the benefits of the industry standard Active gauging concept, with integral electronics and replaceable tube. The gauge has a degas facility and includes features to protect and extend the life of the filaments.

The AIGX benefits from extremely low emissions of charged particles, which makes it an excellent choice for processes where background noise is undesirable.

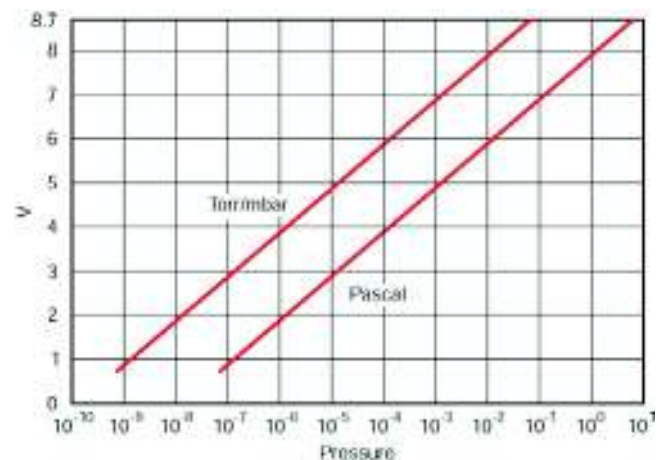
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Features & Benefits

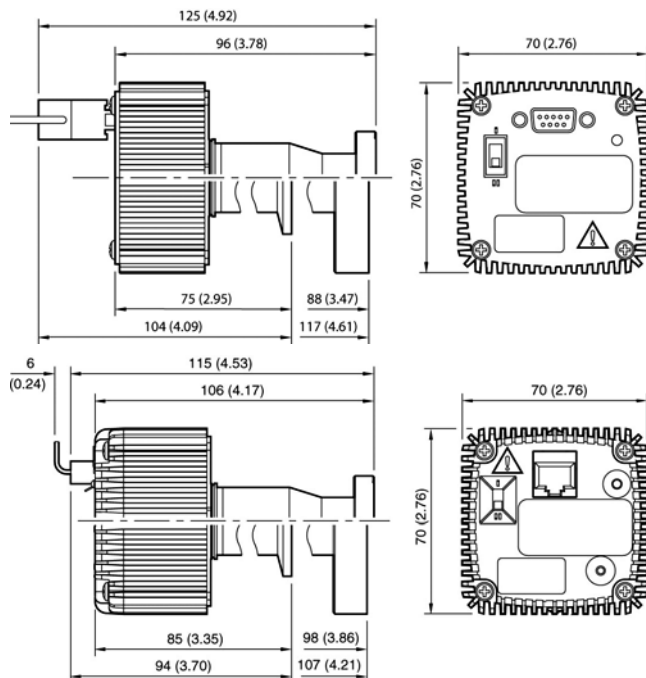
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- Full 8-decade measurement capability, to 6.6×10^{-10} mbar (5×10^{-10} Torr).
- Two versions available, each with three vacuum coupling variants:
- 'D' versions have a 9-pin 'D' connector and standard interface;
- Up to a thirty-fold reduction in charged particle process contamination compared to leading competitors.
- Automatic filament protection against switching on at atmosphere and running or degassing at high pressure.

Performance Curves



Dimensions



Technical Data

Pressure range	6.6×10^{-2} to 6.6×10^{-10} mbar (5×10^{-2} to 5×10^{-10} Torr)
Power supply	+14.5 to +30.0 V d.c.
Power consumption	Normal operation: 7W (Max), Degas: 14W (Max)
Output signal	Linear, 1 Volt / decade
Response time	1.33×10^{-8} mbar ($>10^{-8}$ Torr) ~ 100 ms 1.33×10^{-8} mbar ($<10^{-8}$ Torr) ~1- 2 s
Maximum voltage	30 V d.c.
Maximum current	100 mA max
Temperature range	
Operating temperature	0 to +40 °C
Storage temperature	-30 to +70 °C

For more information, contact Edwards.

Ordering Information

Product Description	Order No.
AIGX-D-NW25	D04860000
AIGX-D-DN16CF	D04861000
AIGX-D-DN40CF	D04862000
AIGX-D-NW25, Certificated	D0486000C
AIGX-D-DN16CF, Certificated	D0486100C
AIGX-D-DN40CF, Certificated	D0486200C
AIGX-S-NW25, Certificated	D0485000C
AIGX-S-DN16CF, Certificated	D0485100C
AIGX-S-DN16CF	D04851000
AIGX-S-DN40CF	D04852000
AIGX-S-DN40CF, Certificated	D0485200C
AIGX-S-NW25	D04850000
Accessories & Spares	Order No.
0.5M Active Gauge Cable	D40001005
1M Active Gauge Cable	D40001010
3M Active Gauge Cable	D40001030
5M Active Gauge Cable	D40001050
10M Active Gauge Cable	D40001100
AIGX Fuses Spare Pk5	D04850805
AIGX Tube DN40CF	D04852801
AIGX Tube Spare DN16CF	D04851801
AIGX Tube Spare NW25	D04850801
AIGX-D Electronics Module SP	D04860800
AIGX-S Electronics Module SP	D04850800
DN16CF/1.33 Annealed Copper Gasket Pk 5	C10001270
DN16CF/1.33 Nut & Bolt & Washer M4 Pk 25	C10001630
DN40CF/2.75 Annealed Copper Gasket Pk 5	C10005270
DN40CF/2.75 Nut & Bolt & Washer M6 Pk 25	C10005630
NW25 Trapped O Ring Viton	C10514490