

NEW

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mbar VACOM®

BARION® XS

Active Hot Cathode Ionization Vacuum Gauge

Absolute Pressure Measurement from 5×10^{-10} to 5×10^{-2} mbar*



Features

- Vacuum gauge for use in computerized vacuum systems
- Logarithmic linear analog output 0 - 10 V
- Integrated degas function
- Sensor protection by automatic overpressure switch-off
- Easily replaceable hot cathode sensor head

Benefits

- Reliable
- Quick response to pressure changes
- Cost-effective
- Spare filament included

* 5×10^{-8} to 5 Pa | 3.8×10^{-10} to 3.8×10^{-2} Torr

www.vacom-vacuum.com

Technical data

■ Measurement range	5E-10 ... 5E-2 mbar 5E-8 ... 5 Pa 3.75E-10 ... 3.75E-2 Torr
■ Measuring methods	hot cathode ionization (Bayard-Alpert)
■ Accuracy (typical)	± 20 % of reading
■ Reproducibility	± 5 % of reading
■ Analog outputs	log linear, 0 ... 10.5 V, 1 V/decade (0 V: 1E-10 mbar; 8 V: 1E-2 mbar; > 9 V: IG off)
■ Error signals	status LED green: gauge on green flashing: degas red: gauge off
■ Temperature range (operation)	5 ... 45 °C
■ Max. bakeout temperature	80 °C at the flange
■ Mounting position	any
■ Ionization gauge Auto on/off	Auto off at: 5E-2 mbar (low emission) 1E-3 mbar (high emission) 3E-4 mbar (degas)
■ Filaments (cathodes)	yttria coated iridium
■ Number of filaments	2
■ Filament operation modes	manual filament selection - dip-switch, digital emission selection
■ Electron bombardment	degas cycle 2 minutes at 4 W
■ Materials in vacuum	stainless steel 304 and 316L, glass, W, yttria on Ir, NiFe
■ Housing	electronics: aluminium; sensor head: stainless steel
■ Dimensions	approx. L 99 mm, W 73 mm, D 66 mm
■ Power supply	24 V DC, 12 W max (SELV)
■ Electrical connections	D-Sub 9 pin male (DC in, analog out, digital inputs (gauge on/off, degas start, high emission on/off), digital outputs (gauge status, degas status))
■ Vacuum connections	DN16KF, DN25KF

(Subject to change)

Order information

Order code	Description	Vacuum connection
BAX16K	BARION® XS active vacuum gauge	DN16KF
BAX25K	BARION® XS active vacuum gauge	DN25KF

Accessories

Order code	Description	Vacuum connection
BAX16K-G	Replacement gauge head for BARION® XS	DN16KF
BAX25K-G	Replacement gauge head for BARION® XS	DN25KF

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