

JEVAmet[®] IOM

Hot cathode ionisation gauge

- active hot cathode ionisation gauge of Bayard-Alpert
- two robust hairpin filaments
- quick and simple replacement of the measuring head
- analog output and digital control inputs
- supply voltage +24 VDC
- compact, space-saving design
- any mounting position
- vacuum connection via flange DN16KF or DN25KF
- sensor in stainless steel tube, electronic box made of aluminium



Versions

JEVAmet® IOM-16K	2 hairpin filaments in a replacement gauge head DN16KF, measuring range $5 \cdot 10^{-2} - 5 \cdot 10^{-10}$ mbar
JEVAmet® IOM-25K	2 hairpin filaments in a replacement gauge head DN25KF, measuring range $5 \cdot 10^{-2} - 5 \cdot 10^{-10}$ mbar

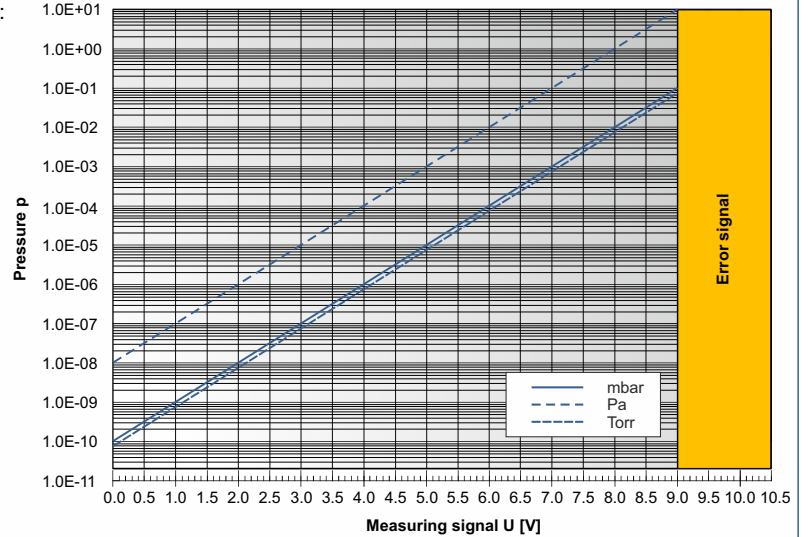
Technical Data

Vacuum measuring:	Measuring range:	$5 \cdot 10^{-2} - 5 \cdot 10^{-10}$ mbar
	Measuring principle:	hot cathode ionisation of Bayard-Alpert
	Sensitivity (N ₂):	16 mbar ⁻¹ approx.
	Accuracy (N ₂):	± 20 % of measuring value
	Reproduzierbarkeit:	± 5 % of measuring value
Sensor:	Mounting position:	any mounting position
	Filaments (Cathodes):	2 yttria-coated iridium hairpin filaments (manual switching via toggle switch)
	Materials in vacuum:	stainless steel 1.4301, NiFe, Wolfram, glass, W, yttria-coated iridium
	Overpressure stability:	1,5 bar abs.
Power supply:	Operation voltage:	+24 VDC (SELV-E according to EN 61010)
	Current consumption:	≤ 0,5 A
	Connection:	9-pin SUB-D male connector
Analog output:	Measuring signal:	0 – +10.5 VDC
	Error signal:	> 9VDC: emission off
	Signal and pressure relation:	1.0E+01

1 VDC / decade, logarithmic

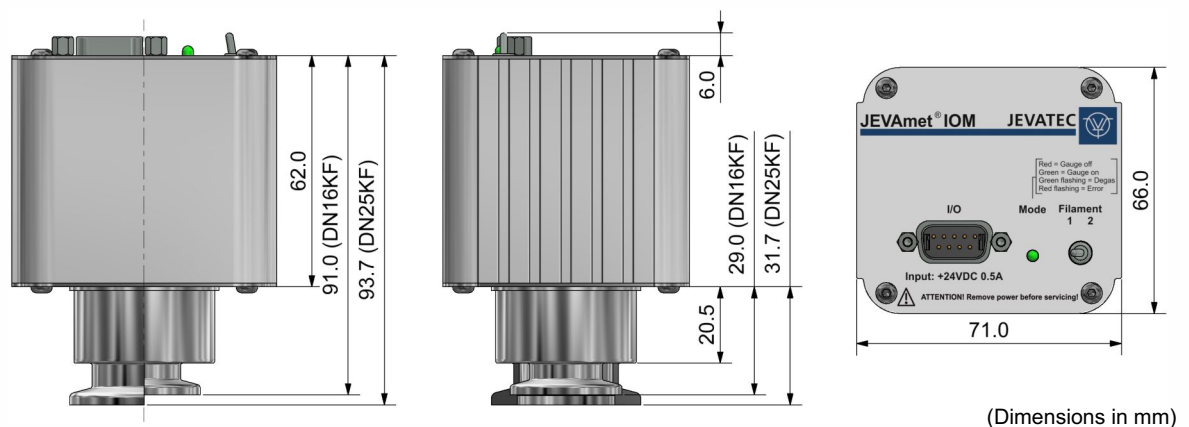
$$p = 10^{(U-10)} \text{ [mbar]}$$

$$U = 1 \cdot \lg(p / 10^{-10}) \text{ [V]}$$



Environment:	Operation temperature:	+5 – +45 °C (sea level)
	Bakeout temperature:	80°C max. at flange
	Usage:	indoors (2000 m above sea level max.), protection class IP40
Weight:		0.3 kg approx.

Dimensions



More information under:

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