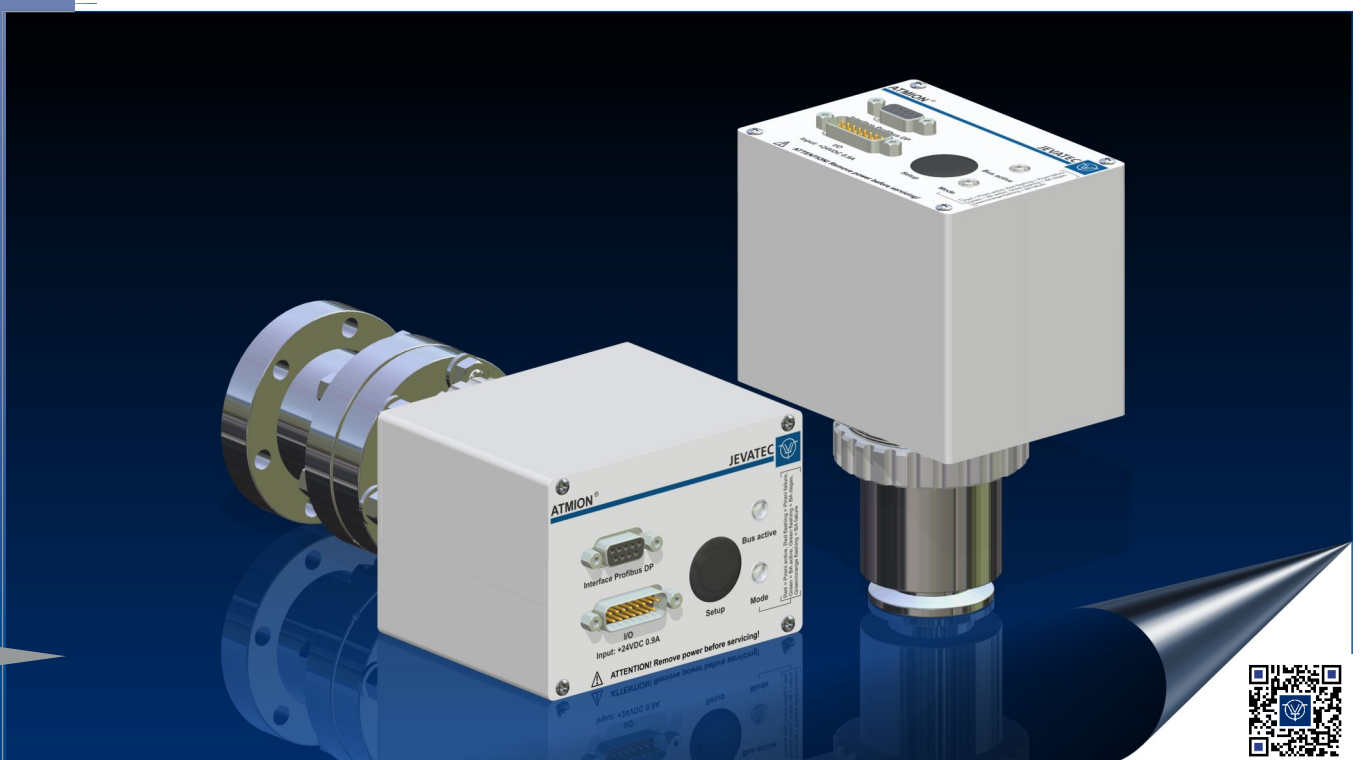


ATMION[®]

Active wide-range vacuum gauge

- consistent pressure measurement from atmosphere to UHV by a combination of Pirani and Bayard-Alpert-Ionisation principle with only one sensor
- ATMION compact with two robust hairpin filaments for industry customers
- ATMION standard with two replaceable straight filaments for processes in UHV
- analog output, serial interface RS232 and digital control inputs
- Profibus DP interface optionally
- programmable switching point function
- supply voltage +24 VDC
- vacuum connection via flange DN25KF or DN40CF
- sensor in stainless steel tube, electronic box made of aluminium
- compatible with vacuum controllers by JEVATEC and VACOM



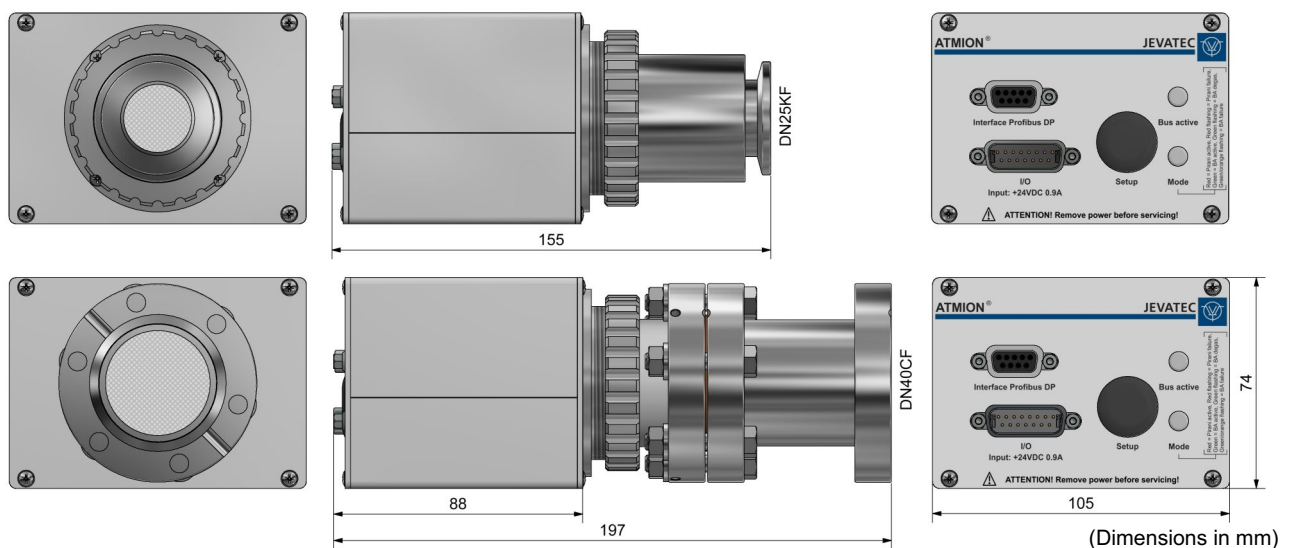
Versions

ATMION® compact	2 hairpin filaments and Pirani wire in a replacement gauge head DN25KF, measuring range 1000 – 1·10 ⁻⁸ mbar
ATMION® compact-DP	like ATMION® compact, but with Profibus DP interface
ATMION® standard	2 replaceable straight filaments and Pirani wire in a sensor DN40CF, measuring range 1000 – 1·10 ⁻¹⁰ mbar
ATMION® standard-DP	like ATMION® standard, but with Profibus DP interface

Technical Data

Vacuum measuring:	Measuring range:	ATMION® compact: 1·10 ⁻⁸ – 1000 mbar ATMION® standard: 1·10 ⁻¹⁰ – 1000 mbar
	Measuring principles:	heat conduction of Pirani (temperature-compensated) hot cathode ionisation of Bayard-Alpert
	Switch-over between principles:	Pirani / Bayard-Alpert: 1·10 ⁻² mbar Bayard-Alpert / Pirani: 1·10 ⁻¹ mbar
	Accuracy (N ₂):	10 – 1·10 ⁻² mbar ± 25 % of measuring value 1·10 ⁻² – 1·10 ⁻⁸ mbar ± 10 % of measuring value
	Sensor:	Pirani: platinum wire Bayard-Alpert: ATMION® compact: 2 yttria-coated iridium hairpin filaments ATMION® standard: 2 replaceable yttria-coated iridium straight filaments
	Materials in vacuum:	stainless steel 1.4301, tungsten, platinum, glass ceramic, yttria-coated iridium
	Overpressure stability:	1.5 bar abs.
Power supply:	Operation voltage:	+24 VDC (SELV-E according to EN 61010)
	Current consumption:	≤ 0.9 A
	Connection:	25-pin SUB-D male connector
Identification:	Compatibility:	JEVATEC – JEVAmet® VCU VACOM – MVC-3
	Analog output:	Measuring signal: 0 – +10.0 VDC logarithmic linear with 0.625 VDC per decade Failure signal: +9.375 – +10.0 VDC Signal and pressure relation: $U = 0.625 \cdot \lg(p / 10^{-12})$ [V]
Digital interfaces:	Serial interface RS232 via 15-pin SUB-D male connector Profibus DP interface via 9-pin SUB-D female connector (optionally)	
Switching function:	Number: 1 TTL set point, potential free (+24 VDC, 0.1 A max.) Connection: 15-pin SUB-D male connector	
Environment:	Operation temperature:	+10 – +40 °C (sea level)
	Bakeout temperature:	ATMION® compact: 180°C max. at flange (electronic box removed) ATMION® standard: 250°C max. at flange (electronic box removed)
Weight:	Usage:	indoors (2000 m above sea level max.), protection class IP40
		0.8 – 1.6 kg approx.

Dimensions



More information under:

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