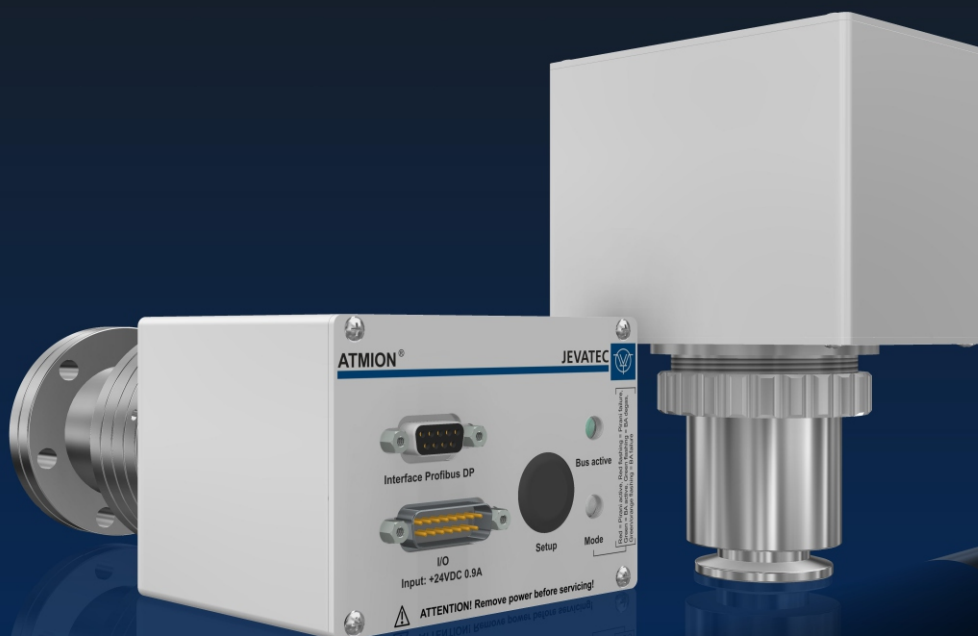


ATMION®

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



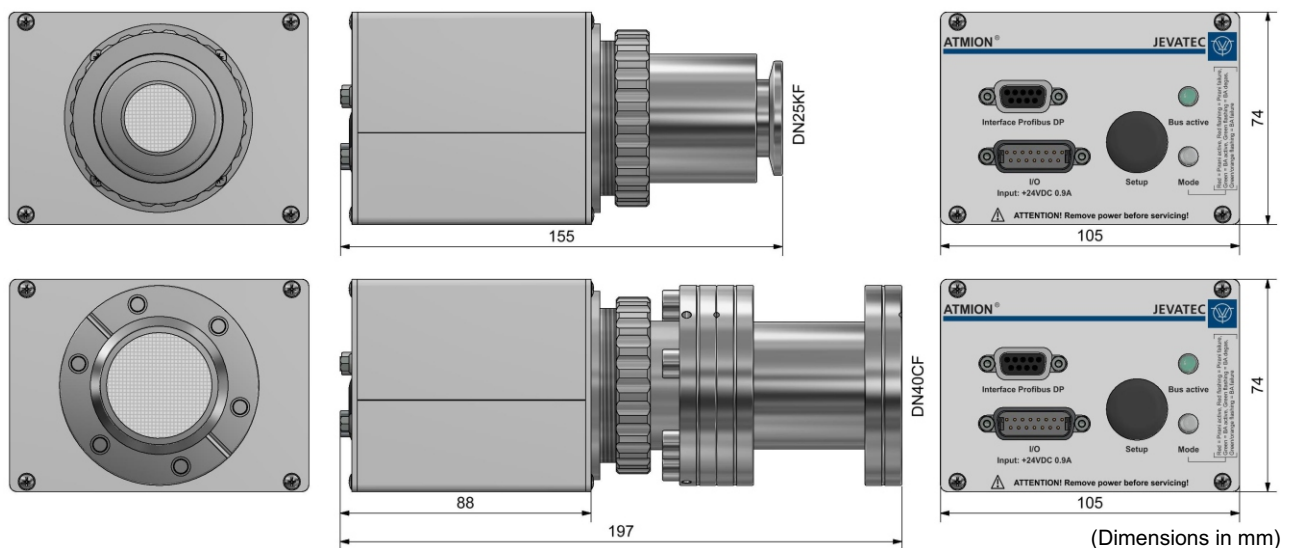
Versions

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
Sensor:		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
Materials in vacuum:		ATMION® standard:	2 replaceable yttria-coated iridium straight filaments
			stainless steel 1.4301, tungsten, platinum, glass ceramic, yttria-coated iridium
Power supply:	Overpressure stability:	1.5 bar abs.	
	Operation voltage:	+24 VDC (SELV-E according to EN 61010)	
	Current consumption:	≤ 0.9 A	
Identification:	Connection:	25-pin SUB-D male connector	
	Compatibility:	JEVATEC – JEVAmel® 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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