



# Vacuum Measurement



NICHTS ist unerreichbar.

# Vacuum Measurement – the right solution for each application

Take benefit of our long lasting experience in manufacturing vacuum measurement and proven products for industrial processes as well as R&D applications. Our knowledgeable and skilled team will give you solid recommendations finding the optimum sensor and controller.

All VACOM vacuum gauges combine accuracy, robustness, quality, long lifetime, usability and operation safety. We are looking forward to customizing our innovative and market proven gauges to your requirements.

All our standard gauges, controllers and cables are on stock. To ensure continuity in your production process, we provide exchange gauges or controllers on request. A highly qualified team of VACOM technicians ensures fast repairs, also at customer sites.

## Hot Cathode Ionization and Wide Range Sensor – BARION® series

### Especially suitable for

- research and development processes, that require low pressure detection
- for local pressure measurements, e.g. for molecular beam epitaxy

### Measurement range of the BARION® series:

- $5 \cdot 10^{-12}$  to 1000 mbar



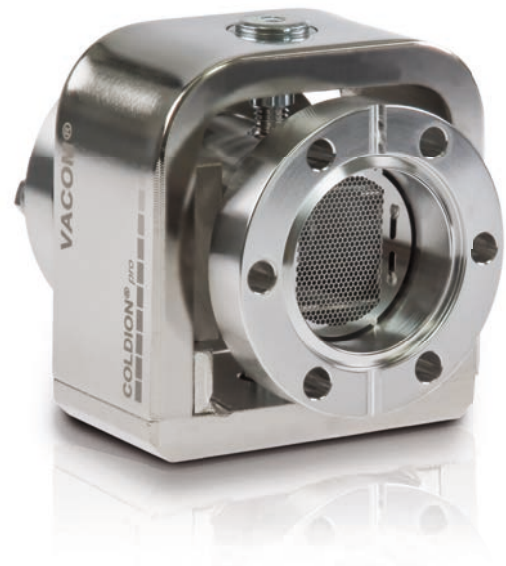
## Cold Cathode Ionization Sensor – COLDION® series

### Especially suitable for

- experiments and systems using high or ultra high vacuum
- particle accelerators
- cryo applications
- sputter and coating processes
- vacuum-based analytical processes

### Measurement range of the COLDION® series:

- $5 \cdot 10^{-12}$  to  $1 \cdot 10^{-4}$  mbar



## Product overview with compatible display and control units

	Measuring range (10 <sup>n</sup> mbar)																Display and control units			Electronics									
	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	VMG	CU-100	VaX	VaX linkB									
Hot cathodes	BARION® basic II																					■	■						
	BARION® pro II																							■	■				
	BARION® extended																												
	BARION® move																												
	BARION® smart / smartF																											■	■
	BARION® atm II																■												■
Cold cathodes	COLDION® basic																		■										
	COLDION® pro																		■										
	COLDION® extended																		■										
Membrane												ANYGAS					■												
RFM												MEMBRANE					■			■									
Heat loss												PIRANI					■			■									

## VACOM® Programs

- **VACOM Control Center**  
Mobile App to read out the BARION® series via the controller Vacuum Explorer VaX.
- **VACOM Vacuum measurement & demonstration program (VVD)**  
PC program to read the pressure of all VACOM gauges via a serial interface.
- **VACOM® Protocol**  
Protocol for an easy, flexible and reliable interface communication with VACOM devices.
- **Firmware updates**  
Up-to-date with updates for our gauges and display devices.  
Download for free at from [www.vacom.de/downloads/software](http://www.vacom.de/downloads/software)

## Prevacuum Sensors

### Measurement range:

- Relative pressure manometer  
BOURDON: < 10 to 1020 mbar
- Heat conduction  
PIRANI: 1 · 10<sup>-4</sup> to 1000 mbar
- Piezoresistive  
ANYGAS®: 1 to 1000 mbar
- Capacitive  
MEMBRANE: 1 · 10<sup>-5</sup> to 1000 mbar





## Precision & Purity

UHV ■ XHV ■ UCV

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