10^-n mbar
VACOM®

COLDION®

Cold cathode ionization gauge

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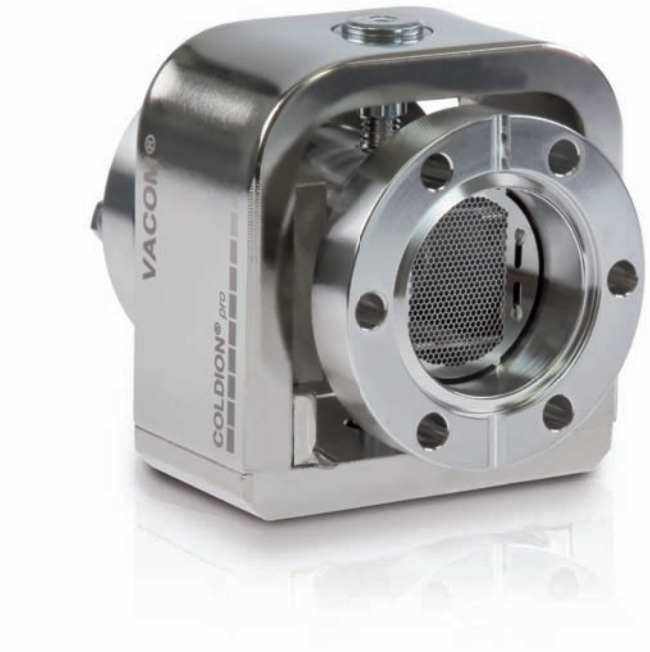

- Reliable and long term stable pressure measurements
- Very short ignition times even in extreme ultra high vacuum
- Extremely low magnetic field

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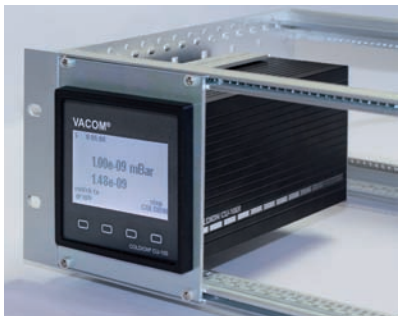
Technical data COLDION®

	COLDION® *basic*	COLDION® *pro*	COLDION® *extended*
■ **Measurement range**	1×10^{-4} to 1×10^{-9} mbar	1×10^{-4} to 1×10^{-11} mbar	1×10^{-4} to 5×10^{-12} mbar
■ **Temperature range (operation)**	0 °C to 80 °C	0 °C to 200 °C	
■ **Bakeout temperature**	Short-term 165 °C with cable connected	■ Max. 200 °C in operation / with cable connected ■ Max. 250 °C without high voltage cable at sensor ■ Max. 400 °C without iron yoke, magnets and high vacuum cable	
■ **Measurement uncertainty**	30 %		
■ **Measuring principle**	Penning		
■ **Voltage (operation)**	Max. 5 kV		
■ **Current input**	Max. 200 µA		
■ **Power input**	Max. 1,25 W		
■ **Materials exposed to vacuum**	Stainless steel, Al, Al_2O_3, Zr		
■ **Vacuum connection**	DNCF40		
■ **Ignition time**	$t < 10$ s at $p > 5 \times 10^{-9}$ mbar		
■ **Dimension**	(H x W x D): 122 x 87 x 90 mm		
■ **Weight**	2.5 kg		

Technical data control unit COLDION® CU-100

■ **Set points**	3, configured independently from each other
■ **Interfaces**	RS232, analog current [0 to 20 mA], analog voltage [0 to 10 V]
■ **Cable**	High voltage cable and 24 V plug
■ **Dimension**	(H x W x D): 95 x 95 x 165 mm

Installation kit and accessories



Rack installation kit

For the application of the controller unit COLDION® CU-100 at 19 inch housing. Includes screws, mounting rails, and aluminum cover.

CF flange kit for plate nuts

For the connection of CF flanges with through bore-hole.

CF Flange kit for threaded hole

For the connection of a flange with trough bore hole and a flange with threaded hole.

CF Flange kit for blind threaded hole

For the connection of a flange with trough bore hole and a flange with blind threaded hole.

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