

COLDION®

Cold cathode ionization gauge

EN



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

Technical data COLDION®

	COLDION® <i>basic</i>	COLDION® <i>pro</i>	COLDION® <i>extended</i>
■ Measurement range	1 x 10 ⁻⁴ to 1 x 10 ⁻⁹ mbar	1 x 10 ⁻⁴ to 1 x 10 ⁻¹¹ mbar	1 x 10 ⁻⁴ to 5 x 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	<ul style="list-style-type: none"> ■ 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 ₂ O ₃ , Zr		
■ Vacuum connection	DNCF40		
■ Ignition time	t < 10 s at p > 5 x 10 ⁻⁹ mbar		
■ Dimension	(HxWxD): 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	(HxWxD): 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.