

Vacuum Gauges and Controller, VACUUBRAND



Vakuumtechnik im System

State-of-the-art vacuum gauges for laboratory and industrial operation have to meet high standards in terms of gauge head resistance to chemicals, reliability in rugged applications and operator-friendly interfaces. In addition to dedicated fine or low vacuum gauges, the product portfolio offers the VACUU-VIEW extended, a gauge with an extended measuring range (110 – 10⁻³ mbar).

A lot of applications in the laboratory call for electronic vacuum regulation, that is, constantly adapting the pump's volume flow rate to process requirements. The maximum volume flow rate of the unregulated pump can be changed in various ways:

- Two-point regulation via suction line valve: The VACUU-SELECT vacuum regulator controls the vacuum using the classic method of two-point control by opening and closing a suction line valve
- Speed-controlled VARIO vacuum pumps and pump stands: VARIO membrane pumps and chemicals pump stands with VACUU-SELECT regulate the vacuum with high precision and free of hysteresis by adjusting the speed of the membrane pump.
- Adaptive regulation for fully automated evaporation – without entering parameters: When „Automatic evaporation“ is selected, the vacuum controller VACUU-SELECT automatically detects the boiling pressure of the solvent, or also several boiling points of a solvents mixture, and continuously adapts the vacuum to the process curve – right up to the end of the process. For this option, the gauge must be combined with one of our VARIO pumps.

Vacuum gauge VACUU-VIEW extended

For the monitoring of your vacuum processes in the rough and fine vacuum range, the vacuum gauges VACUU-VIEW extended are perfect! The heavy duty combination of ceramic diaphragm sensor and ceramic jacketed Pirani sensor ensures reliable readings in the wide range from atmosphere down to 10⁻³ mbar.

- Precision and chemical resistance in an exceptionally wide range from atmosphere down to 10⁻³ mbar, one gauge only for both rough and fine vacuum
- Compact design with integrated sensors for useful setup in laboratory and process
- The chemical resistant combination of ceramic diaphragm sensor and ceramic jacketed Pirani sensor ensures a long product life even with aggressive chemicals
- Illuminated display, easy to read
- Display with menu driven handling, easy to use e.g. for unit settings

Technical data:

Measuring range:	0.001 – 1100 mbar/hPa
Dimensions (LxWxH):	approx. 50 x 62 x 103 mm
Weight:	approx. 0.19 kg
Rated mains voltage / mains frequency:	100–230 V/50–60 Hz
Plug:	CEE/CH/UK/US/AUS/CN
Measurement principle:	Ceramic diaphragm sensor + ceramic jacketed Pirani sensor
Accuracy of measurement:	± 15% of indicated value in the range from 0.01 – 5 mbar / ± 3 mbar for > 5 mbar
Temperature coefficient (mbar/hPa/torr/°C):	± 0.2 mbar/hPa/0.15 torr /K
Vacuum connection:	Small flange KF DN 16 and hose nozzle DN 6/10 mm
Items supplied:	Vacuum gauge with integrated vacuum sensors, ready for operation, with kit hose nozzle DN 6/10 mm, wall-plug power supply and manual



Article	Order No.
① Vacuum gauge VACUU-VIEW extended	10 18 73210

Vacuum gauge VACUU-VIEW

For the monitoring of your vacuum processes in the rough vacuum range, the vacuum gauges VACUU-VIEW are perfect! Chemically resistant ceramic diaphragm sensor for measurement in the rough vacuum range. VACUU-VIEW provides gas-independent pressure indication with precise capacitive readout.

- Highest precision in the range from atmosphere down to 0.1 mbar, perfect gauge for all rough vacuum applications
- Compact design with integrated sensor for useful setup in laboratory and process
- Chemically resistant ceramic diaphragm sensor, highly reliable at harsh laboratory conditions even in case of aggressive chemicals
- Illuminated display, easy to read
- Display with menu driven handling easy to use e.g. for unit settings



Technical data:

Measuring range:	0.1 – 1100 mbar/hPa
Dimensions (L×W×H):	approx. 50 × 62 × 103 mm
Weight:	approx. 0.19 kg
Rated mains voltage / mains frequency:	100–230 V/50–60 Hz
Plug:	CEE/CH/UK/US/AUS/CN
Measurement principle:	Ceramic diaphragm (alumina), capacitive, gas indep., absolute pressure
Accuracy of measurement:	< ± 1 mbar/hPa/torr / ± 1 digit (after adjustment, constant temp.)
Temperature coefficient (mbar/hPa/torr/°C):	< 0.07 mbar/hPa/0.05 torr /K
Vacuum connection:	Small flange KF DN 16 and hose nozzle DN 6/10 mm
Items supplied:	Vacuum gauge with integrated vacuum sensor, ready for operation, with kit hose nozzle DN 6/10 mm, wall-plug power supply and manual



②

Article	Order No.
② Vacuum gauge VACUU-VIEW	10 18 73220

Vacuum gauge DVR 2pro

The DVR 2pro has an integrated vacuum sensor made of alumina ceramic with outstanding corrosion resistance and superior long-term stability. A particular advantage is its cordless, battery-powered operation.

Technical data:

Measuring range:	1 – 1060 mbar/hPa
Dimensions (L×W×H):	115 × 115 × 90 mm
Weight:	0.4 kg
Measurement principle:	Ceramic diaphragm (alumina), capacitive, gas indep., absolute pressure
Measurement uncertainty:	±1 mbar/hPa/torr / ±1 digit (after adjustment, constant temp.)
Vacuum connection:	Small flange KF DN 16 and hose nozzle DN 6/10 mm
Items supplied:	Vacuum gauge complete with integrated vacuum sensor, including battery 9 V alkali-manganese, support rod, connecting parts and manual



③

Article	Order No.
③ Vacuum gauge DVR 2pro	10 18 72906

VACUU-SELECT Vacuum controller

VACUU-SELECT – the interactive controller for all vacuum processes in the lab, with touch display and operator-oriented user interface.

VACUU-SELECT works just like a smartphone: Simply select and start the laboratory application via the touch display. The controller automatically manages the vacuum process – right up to the end. If you select solvent evaporation, VACUU-SELECT detects the boiling point and adapts the vacuum process accordingly.

In this way, VACUU-SELECT provides for added comfort and efficiency in the lab. It also allows you to combine and control the application, the vacuum of your choice and other parameters individually, tailored to your needs.

Performance features:

- control for all common vacuum processes in chemistry labs
- graphic user interface simplifies laboratory work
- predefined applications save time and guarantee reproducible results
- application editor allows easy customization
- integrated help function

Technical data:

Measuring range:	0.1 – 1080 mbar/hPa
Interface:	Ethernet / USB (Type A)
Dimensions (L×W×H):	152 × 127 × 41 mm
Weight:	0.745 kg
Rated mains voltage / mains frequency:	100 – 230 V / 50 – 60 Hz
Plug:	CEE/CH/UK/US/AUS
Measurement principle:	Ceramic diaphragm (alumina), capacitive, gas indep., absolute pressure
Measurement uncertainty:	< ±1 mbar/hPa/torr / ±1 digit (after adjustment, constant temp.)
Vacuum connection:	PTFE tubing connection 10/8 mm, hose nozzle DN 6/10 mm, small flange DN 16



④

Article	Order No.
④ VACUU-SELECT Vacuum controller	10 18 77000



Vacuum controller bench-top device or for lab scaffold CVC 3000 detect

The VACUU-SELECT complete controller provides enhanced process efficiency to applications supported by a vacuum source such as a basic pump or a powerful vacuum network. The VACUU-SELECT controller has you covered. Use manual set-point-control for simple processes, run pre-defined applications at the touch of a button, or create your own application with simple drag-and-drop editing. The controller is available as a bench-top unit, ready for mounting on lab scaffolding, or as a built-in version for lab casework. The integrated controller includes the VACUU-SELECT vacuum controller, a check valve, and a chemical-resistant solenoid isolation valve. The ceramic vacuum sensor and venting valve are built right into the body of the VACUU-SELECT controller. The compact unit is easy to install and setup. With its intuitive, application-based interface, the controller offers predefined vacuum processes for all common laboratory applications. In the case of solvent evaporation, it detects the boiling pressure and then holds the pressure level stable using two-point control.

Technical data:

Measuring range:	1080/810 – 0.1/0.1 mbar/hPa/torr
Measurement principle:	Ceramic diaphragm (alumina), capacitive, gas indep., absolute pressure
Measurement uncertainty:	< ±1 mbar/hPa/torr / ±1 digit (after adjustment, constant temp.)
Vacuum connection:	Hose nozzle DN 6/10 mm
Venting valve connection:	Integrated, hose nozzle DN 4–5 mm
Dimensions (L×W×H):	191 × 127 × 187 mm
Weight:	2 kg
Power supply:	100 - 230 V / ~ 50 - 60 Hz



⑤

Article	Order No.
⑤ VACUU-SELECT Complete controller benchtop device CEE/CH/UK/US/AUS/CN Items supplied: VACUU-SELECT complete controller bench-top device, with solenoid valve, non-return valve, integrated ceramic diaphragm vacuum sensor and venting valve. With power supply, ready to use, with manual.	10 18 70070
VACUU-SELECT Complete controller for scaffold mounting CEE/CH/UK/US/AUS/CN Items supplied: VACUU-SELECT complete controller for lab scaffold mounting, with solenoid valve, non-return valve, integrated ceramic diaphragm vacuum sensor and venting valve. With power supply, ready to use, with manual.	10 18 70080

