

Вакуумметры CARL ROTH VAC, VAR, DVR 2pro, VMpro 2, DCP 3000, VACUU VIEW, VCpro 601, VACUU-SELECT, SC 920 G

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Vacuum measuring devices and systems



Vacuum meter

ROTH SELECTION.

The devices are connected to a vacuum pump in series on the suction side. Stand mounting possible (using spring clamps on the back of the device).

Technical specifications:

Art. No.	NA03.1	Y457.1
Type	VAC	VAR
Version	meter	controller
Measuring range	1020–0 mbar	
Resolution	10 mbar	
Connection	for hose inner Ø 8 mm	
W x D x H	80 x 80 x 150 mm	

(1) VAR with manual regulator

For controlling the vacuum and keeping it constant via a control button. Continuously adjustable for a variable vacuum level.

Type	Version	Art. No.	Pack Qty.
VAR	controller	Y457.1	1 unit(s)

(2) VAC

For displaying the current vacuum level.

Type	Version	Art. No.	Pack Qty.
VAC	meter	NA03.1	1 unit(s)



Vacuum meter DVR 2pro

Vacuubrand.

Chemical-resistant materials in area in contact with media for excellent long-term stability and accuracy.

- Integrated ceramic diaphragm pressure transducer (aluminium oxide)
- Digital pressure display, with additional analogue representation
- Automatic switch-off after 1 to 600 min or continuous operation
- Adjustable measuring cycle: Automatic, 1x per 3 s, 1x per 1 s or 3x per 1 s
- Switchable pressure display (mbar, torr, hPa)

Technical specifications:

Art. No.	HTE7.1
Type	DVR 2pro
Measuring range	1060–1 mbar
Resolution	0.1 mbar
Measuring principle	capacitive absolute pressure transducer, regardless of the gas type
Accuracy	< ±1 mbar/±1 digit
Connection	KF DN 16 small flange DN 6/10 mm stepped hose nozzle Hose connection for PTFE hoses (inner Ø 8 mm, outer Ø 10 mm)
Ambient temperature	+10 – +40 °C
L x W x H	115 x 115 x 56 mm
Weight	400 g
Power supply	E-Block 9 V battery

Delivery incl. vacuum connecting parts, stand rod and battery.

Type	Art. No.	Pack Qty.
DVR 2pro	HTE7.1	1 unit(s)



Vacuum measuring devices and systems



Vacuum meter VMpro 2

WELCH Vacuum.

Robust, durable and reliable. Digital multi-range vacuum meter for measuring the vacuum in the coarse and fine vacuum ranges. Chemically resistant and therefore ideal for corrosive and aggressive gases and vapours. Combined sensor unites PIRANI technology with the benefits of a ceramic capacitive membrane sensor. In the measuring range between 10 mbar and the atmosphere, capacitive membrane technology delivers highly accurate values for reliable pressure measurement, regardless of the type of gas.

- With backlit LCD display for easy readability and for simple monitoring of the vacuum; the current measuring principle is also displayed
- High accuracy and excellent resolution in the atmospheric pressure range to 5×10^{-4} mbar
- Both pressure sensors are active at all times: With a low vacuum (< 1 mbar), the signal from the PIRANI sensor is used exclusively for pressure measurement, and for a weaker vacuum (> 10 mbar), only the signal from the capacitive membrane sensor is used. In the mixing area (1-10 mbar), both signals are weighted in proportion to the pressure and the output signal is thus determined
- Can be connected to practically any vacuum pump and any vacuum system
- LED status display

Technical specifications:

Art. No.	1LLE.1
Type	VMpro 2
Measuring range	$1500-5 \times 10^{-4}$ mbar
Resolution	1 mbar (1050–100 mbar), 0.5 mbar (99–1 mbar), 0.1 mbar (0.9–0.1 mbar), 0.01 mbar (0.09–0.01 mbar), 0.001 mbar (0.009–0.001 mbar)
Measuring principle	capacitive and acc. to PIRANI
Accuracy	± 2.5 % of the measured value (950–1050 mbar) ± 5 % of the measured value (100–950 mbar) ± 15 % of the measured value (1×10^{-3} –100 mbar) ± 50 % of the measured value (5×10^{-4} – 1×10^{-3} mbar)
Connection	KF DN 16 small flange, Nozzle for internal hose $\varnothing$ 8–10 mm
Ambient temperature	+10 – +50 °C
W x D x H	45 x 28 x 94 mm
Weight	120 g
Mains connection	100–240 V, 50/60 Hz

Delivery incl. DN 8-10 hose nozzle, T-piece, clamping and centring ring, plug-in power supply.

Type	Art. No.	Pack Qty.
VMpro 2	1LLE.1	1 unit(s)



Vacuum meter DCP 3000

Vacuubrand.

- LCD graphic display with digital pressure indicator and bar graph
- Separate pressure transducer for flexible positioning of the measuring device (cable length 2 m)
- Sensor material for contact with media: Aluminium oxide ceramic.
- Switchable pressure display (mbar, torr, hPa)
- Can be used as a tabletop device or with a stand

Technical specifications:

Art. No.	LY74.1	LY75.1
Type	DCP 3000 with VSK 3000 pressure transducer	DCP 3000 with VSP 3000 pressure transducer
Measuring range	1060–0.1 mbar	1000–0.001 mbar
Resolution	0.1 mbar	10% of displayed decade
Measuring principle	capacitive absolute pressure transducer, regardless of the gas type	Heat conduction according to PIRANI, depending on the gas type
Accuracy	$< \pm 1$ mbar/ ± 1 digit	± 15 % of the measured value (10–0.01 mbar)
Connection	for hose inner $\varnothing$ 6, 8 or 10 mm	
Ambient temperature	+10 – +40 °C	
L x W x H	124 x 124 x 114 mm	
Weight	440 g	
Mains connection	100–230 V, 50/60 Hz	

Delivery incl. DCP 3000 vacuum meter with required pressure transducer, measuring cable and support.

Pic.	Type	Art. No.	Pack Qty.
(1)	DCP 3000 with VSK 3000 pressure transducer	LY74.1	1 unit(s)
(2)	DCP 3000 with VSP 3000 pressure transducer	LY75.1	1 unit(s)

Vacuum measuring devices and systems



Vacuum meter VACUU VIEW

Vacuubrand.

For monitoring vacuum processes with particularly high precision.

- Lit pressure display makes it easy to read the measured values
- Display with menu navigation, simple adjustment of display options, e.g. pressure unit
- Compact design with integrated sensors; is practical to position for lab and process set-ups
- Sensor chemical-resistant for increased service life, even for aggressive applications
- Stable plastic housing with good chemical resistance
- Switchable pressure display (mbar, torr, hPa)

Technical specifications:

Art. No.	1E9H.1	1E9E.1
Type	VACUU VIEW Extended	VACUU VIEW Standard
Measuring range	1100–0.001 mbar	1100–1 mbar
Resolution	1 mbar (1100–10 mbar), 0.1 mbar (10–1 mbar), 0.01 mbar (1–0.1 mbar), 0.001 mbar (0.1–0.001 mbar)	1 mbar (1100–100 mbar), 0.1 mbar (100–1 mbar)
Measuring principle	Capacitive and acc. to PIRANI	capacitive
Accuracy	±3 mbar (1100–5 mbar) ±15% from the measured value (5–0.01 mbar)	< ±1 mbar/±1 digit
Connection	KF DN 16 small flange, DN 6/10 mm stepped hose nozzle	
Ambient temperature	+10 – +40 °C	
L x W x H	50 x 62 x 103 mm	
Weight	190 g	
Mains connection	100–230 V, 50/60 Hz	

Delivery incl. DN 6/10 mm hose nozzle and plug-in power supply.

(1) Standard

With chemical-resistant ceramic membrane sensor for measurements in the coarse vacuum range. Detection of the applied absolute pressure, regardless of the gas type, according to the capacitive measuring principle.

Type	Art. No.	Pack Qty.
VACUU VIEW Standard	1E9E.1	1 unit(s)

(2) Extended

A chemical-resistant combination comprising a ceramic membrane sensor and ceramic jacketed Pirani sensor for measurements in the coarse and fine vacuum ranges.

Type	Art. No.	Pack Qty.
VACUU VIEW Extended	1E9H.1	1 unit(s)



Vacuum controllers VCpro 601

WELCH Vacuum.

Two-point controller for regulating a rough vacuum, for universal use. Robust vacuum sensor, chemically resistant and very precisely adjustable to ±1 mbar.

- With large, multilingual colour display and light/dark screen mode for optimum visibility
- Measured values can be presented digitally as a curve progression or in an analogue manner as individual values
- Integrated solvents library with stored distillation-specific parameters or freely adjustable boiling points; storage of individual pressure histories for innovative processes possible
- With communication port for remote control/monitoring, for downloading logged process data and for software updates
- Various safety levels can be accessed for self-defined user approvals
- Selectable pressure unit (mbar/Torr/psi)
- Integrated ventilation valve for inert gas/room air and solenoid control valve for vacuum
- Connection for cooling water valve available

Technical specifications:

Art. No.	1ATL.1
Type	VCpro 601
Measuring range	1100–1 mbar
Resolution	1 mbar
Measuring principle	Capacitive absolute pressure transducer, regardless of the gas type
Accuracy	Sensor: 0.3% full scale Control: 1 mbar
Connection	For hose inner Ø 8 mm
Venting valve connection	For hose inner Ø 4 mm
Ambient temperature	+15 – +30 °C
L x W x H	195 x 178 x 105 mm
Weight	1500 g
Mains connection	115–240 V, 50/60 Hz

Delivery incl. VCpro 601 vacuum controller with vacuum valve, venting valve and holder for stand removal.

Type	Art. No.	Pack Qty.
VCpro 601	1ATL.1	1 unit(s)



Vacuum measuring devices and systems



Vacuum controller VACUU-SELECT compact

Vacuubrand.

For controlling a vacuum in the coarse vacuum range. Measures and displays the absolute pressure. Compact unit, simple installation, for increased process efficiency.

- Operation via glass touchscreen, even when wearing thick laboratory gloves
- Highly intuitive, application-oriented operator guidance with integrated help function and contextual tips for application
- Saves time thanks to preset vacuum processes for all common laboratory applications
- Independently detects the boiling point during solvent evaporation, e.g. using the rotary evaporator
- Storage of individual vacuum processes using an application editor for reproducible results
- Ceramic membrane vacuum sensor integrated in the device, measurement connection at the valve block. Easy to connect the controller between the pump and vacuum application
- Chemical vacuum power valve: Electromagnetic flip-flop valve for controlling the vacuum you require in the application, with graduated hose nozzles
- Integrated venting valve: Simple pressure compensation or ventilation with inert gas at the end of the process
- Integrated non-return valve: No interference with adjacent applications using a shared vacuum source
- Switchable pressure display (mbar, torr, hPa)

Technical specifications:

Art. No.	1E97.1	1E98.1
Type	VACUU-SELECT compact	
Version	Tabletop device	Stand-mounted device
Measuring range	1080–0.1 mbar	
Resolution	0.1 mbar	
Measuring principle	capacitive absolute pressure transducer, regardless of the gas type	
Accuracy	< ±1 mbar	
Connection	for hose inner Ø 6/10 mm	
Venting valve connection	for hose inner Ø 4–5 mm	
Ambient temperature	+10 – +40 °C	
L x W x H	191 x 127 x 187 mm	152 x 127 x 189 mm
Weight	2000 g	
Mains connection	100–230 V, 50/60 Hz	

Tabletop device

Delivery incl. VACUU-SELECT compact controller in a tabletop version, with suction line valve, non-return valve, integrated ceramic membrane vacuum sensor, venting valve and mains adapter.

Type	Version	Art. No.	Pack Qty.
VACUU-SELECT compact	Tabletop device	1E97.1	1 unit(s)

Stand-mounted device

Delivery incl. VACUU-SELECT compact controller for stand mounting, with suction line valve, non-return valve, integrated ceramic membrane vacuum sensor, venting valve and mains adapter.

Type	Version	Art. No.	Pack Qty.
VACUU-SELECT compact	Stand-mounted device	1E98.1	1 unit(s)



Vacuum system SC 920 G

KNF.

Chemical-resistant, suitable for aggressive and corrosive gases and vapours.

- Control optionally via operating unit or PC
- LCD screen displays actual and target values
- Automatic boiling point detection and boiling point tracking using integrated ramp function
- High recovery rates even with solvents that have very low boiling points
- Delivery rate (in %) can be adjusted via speed
- Integrated gas ballast valve reduces condensate formation within the pump head
- Quiet operation

Control panel:

- Display: LCD
- Operation: Touchscreen/rotary pushbutton
- Dimensions (W x H x D): 90 x 205 x 55 mm

Technical specifications:

Art. No.	EHP1.1
System	SC 920 G
Delivery rate	21 l/min
End vacuum (abs.)	2 mbar
End vacuum abs. with gas ballast	5 mbar
Connection	for hose inner Ø 10 mm
Ambient temperature	+5 – +40 °C
Materials in contact with media	Pump head: PPS, Diaphragms: PTFE-coated, Valves: FFPM, Seals: FPM, Hose nozzles: PVDF
Port	Mini USB
W x D x H	366 x 294 x 423 mm
Weight	15.2 kg
Mains connection	100–240 V, 50/60 Hz

Delivery incl. 2x collecting flasks (each 500 ml, made of glass, coated), 2x flask clamps, USB cable for connecting to a PC and software (compatible with Windows).

Type	Art. No.	Pack Qty.
SC 920 G	EHP1.1	1 unit(s)

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