VACUUBRAND®

Vacuum gauge Set DCP 3000 + VSK 3000

Link to the website

Product description

The fully electronic vacuum measuring device DCP 3000 is both versatile and decisive with its mechanical robustness, measuring accuracy and reliability. The large, illuminated display provides the measured value display of all connected sensors via an easy-to-use rotary control. Up to eight vacuum sensors (four of each type VSK 3000 / VACUU·VIEW and VSP 3000 / VACUU·VIEW extended) can be connected to the DCP 3000. The measurement can be carried out directly on the application. The DCP 3000 enables a relative pressure measurement (reference sensor VSK 3000) as well as working with pressure-dependent switching points by specifying switch-on and switch-off points on an external valve. The vacuum measuring device can also be used as a data logger with up to 32,000 measuring points. The data is read out via the serial interface (RS 232C). The ceramic membrane vacuum sensor VSK 3000 is suitable for the measuring range from atmospheric pressure to 0.1 mbar. It measures regardless of the gas type and is highly chemically resistant, which means that the measurement can be carried out directly at the process, with excellent measurement accuracy and high long-term and temperature stability. Please also note our alternative product VACUU·VIEW.

Performance features

- vacuum measuring device for connecting external vacuum sensors for measurements directly on the system
- flexible and expandable with up to eight sensors, four of the types VSK 3000 / VACUU·VIEW (Atm. to 0.1 mbar) and VSP 3000 / VACUU·VIEW extended (Atm. up to 10^{-3} mbar)
- relative pressure measurement with reference sensors (VSK 3000) and data logger function with up to 32000 measuring points (RS 232C)
- capacitive ceramic diaphragm vacuum sensor VSK 3000 made of aluminum oxide with high chemical resistance, gas type independent absolute pressure measurement
- excellent measurement accuracy, temperature and long-term stability

Technical data are subject to change without notice
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Link to the website:
https://shop.vacuubrand.com/20683170

Ordering data

Product name	Nominal mains voltage | mains frequency	Plug type	Articleno.
Set DCP 3000 + VSK 3000	100-230 V | 50-60 Hz	CEE/CH/UK/US/AUS/CN	20683170

Items supplied

Vacuum gauge with external vacuum sensor VSK 3000, ready for operation, with kit hose nozzle DN 6/10 mm, wall-plug power supply and manual.

Accessories

- Rubber vacuum tubing DN 8 mm (20686001)

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Technical data

Measuring range (mbar)	1080 - 0.1 mbar
Measuring range (torr)	810 - 0.1 torr
Measurement principle	Ceramic diaphragm (alumina), capacitive, gas indep., absolute pressure
Accuracy of measurement	< +- 1 mbar/hPa/torr / +- 1 digit (after adjustment, constant temp.)
Vacuum sensor	VSK 3000
Temperature coefficient	< 0.07 mbar/hPa/0.05 torr /K
Vacuum sensor connection	Small flange KF DN 16, PTFE tubing connection 10/8 mm, hose nozzle DN 6/10 mm
Permissible ambient temperature range (operation)	10 - 40 °C
Permissible ambient temperature range (storage)	-10 - 60 °C
Max. media temperature (continuous operation)	40 °C
Max. media temperature for short times	80 °C
Material of outer housing	Robust plastic housing with good chemical resistance
Protection class IEC 60529	IP 20
Protection class UL50E	Type 1
Protection class of front side according to IEC 60529	IP 42
Dimensions (L x W x H)	144 x 124 x 114 mm
Weight	0.44 kg
Max. breaking capacity / breaking current 24V/VACUU·BUS®	4 A
Cable length connection	2 m
ATEX conformity	II 3/- G Ex h IIC T3 Gc X Internal Atm. only
NRTL certification	Yes
Interface	RS 232C

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Dimension sheet

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VACUUBRAND

VACUUBRAND is part of the Brand group, a manufacturer of high-quality and innovative laboratory equipment and vacuum technology with a global team of approx. 1,000 employees.

With highly motivated and qualified employees, we manufacture the world's most comprehensive product family for vacuum generation, measurement and control for the rough and fine vacuum range in the laboratory.

All with one goal:
Enabling our customers to run reliable, safe and efficient processes. This is why we commit ourselves to continuous innovation, first-class performance, and outstanding quality.

Engineering excellence is central to our ability to deliver products and solutions renowned for their quality, durability, and reliability. Innovative technology, high quality materials and extensive testing deliver unmatched performance - engineered and manufactured in Germany.

Together with you, our experts will find the best solution for your application and provide you with first-class service along the way.

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