

Vacuum gauge Set DCP 3000 + VSP 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 vacuum sensor VSP 3000 is based on the gas thermal conductivity (Pirani) principle for the wide measuring range from atmospheric pressure to 10^{-3} mbar. Thanks to its structure made of chemically resistant plastics (PBT, PUR) and ceramics, it offers significantly higher chemical resistance and robustness compared to conventional Pirani sensors with fine wire metal filaments. Please also note our alternative product VACUU-VIEW extended.

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)
- robust plastic / ceramic vacuum sensor VSP 3000 with high chemical resistance
- VSP 3000 with a wide measuring range from atmospheric pressure to fine vacuum (10^{-3} mbar) thanks to the thermal conductivity measuring principle

Ordering data

Product name	Nominal mains voltage mains frequency	Plug type	Articleno.
Set DCP 3000 + VSP 3000	100-230 V 50-60 Hz	CEE/CH/UK/US/AUS/CN	20683190

Items supplied

Vacuum gauge with external vacuum sensor VSP 3000, ready for operation, with wall-plug power supply and manual.

Accessories

- Rubber vacuum tubing DN 8 mm (20686001)

Technical data

Measuring range (mbar)	1000 - 1×10^{-3} mbar
Measuring range (torr)	750 - 1×10^{-3} torr
Measurement principle	Thermal conductivity (Pirani), chemically resistant plastics / ceramics
Accuracy of measurement	+/- 15% of indicated value in the range 0.01-5 mbar/hPa/torr
Vacuum sensor	VSP 3000
Vacuum sensor connection	Small flange KF DN 16 and 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
NRTL certification	Yes
Interface	RS 232C

Dimension sheet



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