

# Vacuum sensor VSP 3000

[Link to the website](#)

## Product description

The Pirani-type vacuum sensor VSP 3000 offers an outstanding corrosion resistance and mechanical robustness for fine vacuum measurements. It is primarily designed for applications in chemistry and process engineering. The vacuum gauge DCP 3000 is now also available with this new Pirani sensor VSP 3000 for an increased measuring range down to the  $10^{-3}$  mbar range. Up to eight external gauge heads (four of ceramic diaphragm-type VSK 3000 and four VSP 3000) can be connected simultaneously to the DCP 3000 vacuum gauge for easy measurements at multiple points. Communication between the DCP 3000 and the external components is provided by the especially developed bus control system VACUU-BUS®. It is self-configuring, easy to use due to standardized plug connectors and allows cable extensions up to 30 m. The large illuminated display, controlled by a simple jog wheel, displays the readings from each gauge head.

## Performance features

Ordering data

Product name	Nominal mains voltage   mains frequency	Plug type	Articleno.
VSP 3000	VACUU·BUS   DC	VACUU·BUS®	20636163

Items supplied

Vacuum sensor VSP 3000 complete with 2 m VACUU·BUS® - cable

Accessories

- PTFE-tubing (antistatic) with small flanges KF DN 16 (20686031)
- Metal vacuum tubing with small flanges KF DN 16 (20673336)

## Technical data

Measuring range (mbar)	1000 - $1 \times 10^{-3}$ mbar
Measuring range (torr)	750 - $1 \times 10^{-3}$ 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 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 54
Protection class UL50E	Type 5
Weight	0.18 kg
NRTL certification	Yes
Interface	VACUU-BUS

## Dimension sheet



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