



\*patent pending

## World first: Pirani vacuum sensor for chemistry.

THE FIRST PIRANI SENSOR WITH OUTSTANDING  
CHEMICAL RESISTANCE AND MECHANICAL ROBUSTNESS

PIRANI VACUUM SENSOR VSP 3000  
FOR THE GAUGES AND CONTROLLERS OF THE 3000 SERIES



Technology for Vacuum Systems

## VACUUM GAUGE

## DCP 3000 WITH VSP 3000

■ 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

- brand new rugged vacuum sensor VSP 3000 made of plastics and ceramics with high chemical resistance
- wide measurement range from atmospheric pressure to fine vacuum ( $10^{-3}$  mbar) due to Pirani measurement system (thermal conductivity)
- upto 8 gauge heads VSP 3000 (Atm. -  $10^{-3}$  mbar), VSK 3000 (Atm. - 0.1 mbar) can be connected ( 4 of each)
- rugged, splash-water proof vacuum sensor, also for rough operating conditions
- with vacuum controller CVC 3000, VSP 3000 and vacuum solenoid valves of type VV-B vacuum control from atm. -  $10^{-3}$  mbar is achieved

## TECHNICAL DATA Set DCP 3000 + VSP 3000

Vacuum gauge head		VSP 3000
Cable length of vacuum gauge head	m	2
Upper measuring limit	mbar/hPa / torr	$1 \times 10^3$ / $7.5 \times 10^2$
Lower measuring limit	mbar/hPa / torr	$1 \times 10^{-3}$ / $1 \times 10^{-3}$
Measurement principle		Thermal conductivity acc. to Pirani (chem. resist. plastics/ceramics )
Measurement uncertainty		+/- 15% of indicated value in the range 0.01-100 mbar/hPa/torr
Vacuum connection		Small flange KF DN 16 and hose nozzle DN 6/10 mm
Permissible ambient temp. range storage / operation	°C	-10 - 60 / 10 - 40
Max. media temp. for continuous operation / short times	°C	40 / 80
Material of outer housing		Robust plastic housing (PP) with good chemical resistance
Degree of protection, front side of display unit		IP 42
Dimensions of display unit (L x W x H)	mm	138 x 124 x 115
Weight of display unit	kg	0.44
Rated mains voltage / mains frequency / Plug		100-230 V / 50-60 Hz / CEE/CH/UK/US/AUS

## ORDERING INFORMATION

Vacuum gauge Set DCP 3000 + VSP 3000	683190
Vacuum gauge Set DCP 3000 + VSK 3000	683170
Vacuum sensor VSK 3000	636657
Vacuum sensor VSP 3000	636163
Vacuum controller CVC 3000	683160
Air admittance valve VB M-B	674217
Solenoid-operated valves VV-B 15C	674210

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Technical data are subject to change without notice



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