



\*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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