

## VACUUM GAUGE

## DCP 3000 WITH VSP 3000



■ The DCP 3000 is an outstanding vacuum gauge with large illuminated display. The brand new VSP 3000 vacuum sensor is based on thermal conductivity (Pirani) and offers a wide measurement range from atmospheric pressure down to  $10^{-3}$  mbar. The wetted parts are made of chemically resistant plastics and alumina ceramics. It features a much better chemical resistance and ruggedness than conventional Pirani sensors with their fragile metallic spiral-wound filament. Simultaneous connection of up to eight vacuum sensors allows flexible measuring on the spot. The DCP 3000 communicates with external components via the VACUU·BUS™ digital bus system. It is characterized by fully automatic configuration, unified plug connections and cable lengths of up to 30 m. In addition the DCP 3000 offers relative pressure measurements (VSK 3000 as reference) and a data logger feature for up to 32,000 data values.

■ For the range from atmospheric pressure down to high vacuum ( $5 \times 10^{-9}$  mbar) the DCP 3000 is also available with the combined thermal conductivity / cold cathode (Pirani / Penning) vacuum sensor MPT 100.



## PERFORMANCE FEATURES

- up to four gauge heads VSK 3000 (Atm. - 0.1 mbar) and four VSP 3000 (Atm. -  $10^{-3}$  mbar) can be simultaneously connected
- brand new rugged VSP 3000 vacuum sensor made of plastics and ceramics with high chemical resistance, splash-water proof, also for rough operating conditions
- wide measurement range from atmospheric pressure to fine vacuum ( $10^{-3}$  mbar)
- for vacuum control from atmospheric pressure down to  $10^{-3}$  mbar combine the CVC 3000 vacuum controller with gauge head VSP 3000 and vacuum solenoid valves of type VV-B

## TECHNICAL DATA

Vacuum sensor		VSP 3000
Cable length of vacuum sensor	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 (Pirani), chemically resistant 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
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

## ACCESSORIES

Rubber vacuum tubing DN 10 mm (686002)  
 Stainless steel tubing KF DN 16 (1000 mm: 673336)  
 DKD calibration with first delivery (900214)  
 DKD recalibration (900215)  
 Vent valve VBM-B (674217)  
 Vacuum sensor VSK 3000 (636657)  
 Vacuum sensor VSP 3000 (636163)  
 Vacuum sensor MPT 100 (683176)

## ORDERING INFORMATION

Set DCP 3000 + VSP 3000

100-230 V ~ 50-60 Hz CEE/CH/UK/US/AUS 683190

## ITEMS SUPPLIED

Set DCP 3000 + VSP 3000

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

## ORDERING INFORMATION

Set DCP 3000 + MPT 100

100-230 V ~ 50-60 Hz CEE/CH/UK/US/AUS 683175

## ITEMS SUPPLIED

Set DCP 3000 + MPT 100

Vacuum gauge with external vacuum sensor MPT 100, ready for operation, with wall-plug power supply and manual