

Technical data

Technical data of display unit

Display unit	DCP 3000
ATEX approval if the ATEX marking is shown on the rating plate Inner part (pumped gases)	II 3/- G Ex h IIC T3 Gc X Internal Atm. only Tech.File: VAC-EX02
Display	LCD graphic display, illuminated
Pressure units / scale (selectable)	Torr, mbar or hPa
Measurement range with active pressure transducer: VSK 3000 VSP 3000 MPT 100 / 200	795 Torr - 0.1 Torr (1060 mbar - 0.1 mbar) 7.5*10 ² Torr - 1*10 ⁻³ Torr (1*10 ³ mbar - 1*10 ⁻³ mbar) 7.5*10 ² Torr - 3.7*10 ⁻⁹ Torr (1*10 ³ mbar - 5*10 ⁻⁹ mbar)
Ambient temperature range (operation)	50°F to 104°F (10°C to +40°C)
Ambient temperature range (storage)	14°F to 158°F (-10°C to +70°C)
Permissible relative atmospheric moisture during operation (no condensation)	30% to 85%
Maximum permissible range of supply voltage (±25%)	24V DC
Maximum power draw	3.4W (140mA at 24V DC)
Maximum permitted current of connected valves (connected components)	4A (with sufficiently powerful power supply)
Degree of protection IEC 60529 (front side)	IP 20 (IP 42)
Degree of protection UL 50E	type 1
Pollution degree	2
Interface	RS-232 C
Weight (approx.; without power supply)	0.97 lbs. (0.44kg)
Dimensions L x W x H (incl. foot)	5.7" x 4.9" x 4.5" (144 mm x 124 mm x 114 mm)

Technical data of pressure transducers

Type	VSK 3000	VSP 3000
ATEX approval if the ATEX marking is shown on the rating plate Inner part (pumped gases)	II 3/- G Ex h IIC T3 Gc X Internal Atm. only Tech.File: VAC-EX02	-
Pressure transducer	ceramic diaphragm (alumina), capacitive, absolute pressure, gas type independent	thermal conductivity according to Pirani, gas type dependent
Measuring range (absolute)	795 - 0.1 Torr (1060 - 0.1 mbar)	$7.5 \cdot 10^2$ Torr - $1 \cdot 10^{-3}$ Torr ($1 \cdot 10^3$ mbar - $1 \cdot 10^{-3}$ mbar)
Resolution	0.1 Torr (mbar)	10% of displayed decade
Measurement uncertainty (absolute) after careful adjustment and at constant temperature	$< \pm 0.75$ Torr (1 mbar) / ± 1 digit	$1 \cdot 10^1$ Torr - $1 \cdot 10^{-2}$ Torr ($1 \cdot 10^1$ mbar - $1 \cdot 10^{-2}$ mbar): $\pm 15\%$ of displayed value
Maximum permissible pressure at pressure transducer (absolute)	1125 Torr (1.5 bar) absolute	
Maximum permissible temperature of gaseous media at pressure transducer*	continuous operation: 104°F (40°C), for short periods (less than 5 minutes) up to 176°F (80°C)	
Temperature coefficient	$< \pm 0.05$ Torr/K (0.07 mbar/K)	not specified
Ambient temperature range (operation)	50°F to 104°F (10°C to +40°C)	
Ambient temperature range (storage)	14°F to 140°F (-10°C to +60°C)	
Permissible relative atmospheric moisture during operation (no condensation)	30% to 85%	
Range of supply voltage (via VACUU•BUS)	6-30 VDC / 5 mA	18-30 VDC / 65 mA
Degree of protection IEC 60529	IP 54	
Degree of protection UL 50E	type 5	
Pollution degree	2	
Communication	VACUU•BUS	

* if using potentially explosive atmospheres (only VSK 3000): 50 °F to 104 °F (+10°C to +40°C)

We reserve the right for technical modification without prior notice!

Type	VSK 3000	VSP 3000
Weight with small flange with hose nozzle with tubing connection	6.53 oz (185 g) 6.35 oz (180 g) 6.28 oz (178 g)	6.35 oz (180 g) 6.53 oz (185 g) -
Housing dimensions diameter length with small flange with hose nozzle with connection for PTFE tube	2.4" (60 mm) 2.4" (60 mm) 3.7" (95 mm) 2.5" (63 mm)	2.4" (60 mm) 2.3" (58 mm) 3.8" (97 mm) -
Vacuum connection	small flange KF 16 or hose nozzle for tubing I.D. 1/4" / 3/8" (6 / 10 mm) or connection for PTFE tube I.D. 3/8", O.D. 5/16" (10 / 8 mm)	small flange KF 16 and screw-in hose nozzle for tubing I.D. 1/4" / 3/8" (6 / 10 mm)
Internal volume of measurement chamber	with small flange: 0.25 in ³ (4.1 cm ³) with hose nozzle: 0.27 in ³ (4.4 cm ³) with connection for PTFE tube: 0.21 in ³ (3.5 cm ³)	1.8 in ³ (2.9 cm ³) with hose nozzle: 0.15 in ³ (2.5 cm ³)
Cable length	approximately 6'7" (2.0 m)	

Technical data MPT 100 / 200: See instructions for use of MPT 100 /200

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Technical data of power supply

Power supply (wall plug)	20612090 (30 W)	20612089 (25 W)
Input voltage ($\pm 10\%$)	100-240 V~ / 47-63 Hz	100-240 V~ / 47-63 Hz
Maximum current draw	0.8 A	0.7 A
Overvoltage category	II	II
Ambient temperature range (operation)	32°F to 104°F (0°C to +40°C)	-4°F to 140°F (-20°C to +60°C)
Ambient temperature range (storage)	-4°F to 185°F (-20°C to +85°C)	-4°F to 185°F (-20°C to +85°C)
Output voltage	24V DC / short-circuit proof	24V DC / short-circuit proof
Maximum output current	1.25 A	1.05 A
Power connection	exchangeable plug Europe / UK / US / AUS	exchangeable plug Europe / UK / US / AUS
Dimensions	4.3" x 2.3" x 1.3" 108 mm x 58 mm x 34 mm	2.8" x 2.2" x 1.3" 71 mm x 57 mm x 33 mm
Weight (approx.)	0.66 lbs. (0.3 kg)	0.31 lbs. (0.14 kg)

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