

9 Appendix

9.1 Technical information

Designs	
Vacuum gauge – <i>Rough vacuum</i>	VACUU-VIEW
Vacuum gauge – <i>Fine vacuum</i>	VACUU-VIEW extended

9.1.1 Technical data


Technical data

Ambient conditions		(US)
Ambient temperature	10–40 °C	50–104 °F
Working temperature	10–40 °C	50–104 °F
Transport and storage temperature	-10–60 °C	14–140 °F
Altitude, max.	2000 m above sea level	6.562 ft above sea level
Protection class (IEC 60529)	IP 54	
Protection class (UL 50E)	Type 5	
Impact energy	5 J	
Relative humidity	30–85 %, non condensing	
Pollution degree	2	
Avoid condensation or contamination by dust, liquids or corrosive gases.		

Plug-in power supply	30 W	25 W
Input voltage	100–240 VAC	100–240 VAC
Frequency	50–60 Hz	50–60 Hz
Power consumption, max.	0,8 A	0,7 A
Output current, max.	1,25 A	1,05 A
Output voltage, short circuit proof	24 VDC	24 VDC
Weight	0.3 kg	0.14 kg
Dimensions L x B x H	108 mm x 58 mm x 34 mm 4.3 in. x 2.3 in. x 1.4 in.	71 mm x 57 mm x 33 mm 2.8 in. x 2.2 in. x 1.3 in.
Cable length, approx.	2 m (79 in.)	
Power plug	AC, replaceable: CEE/UK/US/AUS	

Electrical data gauge		(US)
Supply voltage, max.	24 VDC	24 VDC
Capacity, max.	1,3 W	1.3 W

Technical data

Power Surge Category	II	
Interface	VACUU·BUS®	
Vacuum data		
VACUU·VIEW	(US)	
Measuring range, absolute	1100–0,1 mbar	825–0.1 Torr
Accuracy of measurement	< ±1 mbar/hPa/Torr, ±1 digit (after adjustment, constant temperature)	
Measuring principle	Ceramic diaphragm (alumina), capacitive, gas type independent, absolute pressure	
Temperature coefficient	< ±0,07 mbar/K	< ±0.05 Torr/K
Sensor	internal	internal
Max. admissible pressure, absolute	1,5 bar	1125 Torr
Max. admissible media temperature (gas) non-explosive atmosphere:		
momentarily	80 °C	176 °F
Continuous operation	40 °C	104 °F
ATEX approval if the ATEX marking is shown on the rating plate	II 3/- G Ex h IIC T4 Gc X Internal Atm. only Tech.File: VAC-EX02	
Inner part (pumped gases)		
Max. admissible media temperature (gas)  atmosphere:		
momentarily	40 °C	104 °F
Continuous operation	40 °C	104 °F
VACUU·VIEW extended (only deviant items)		
Measuring range, absolute	1100–0.001 mbar 1100–0.001 hPa	825–0.001 Torr
Temperature coefficient	< ±0.2 mbar/K	< ±0.15 Torr/K
Resolution at pressure ranges	0.001 hPa (0.001–0,1 hPa) 0.01 hPa (0.1– hPa) 0.1 hPa (1–10 hPa) 1 hPa (10–1100 hPa)	
Accuracy of measurement	±15% of indicated value in the range from 0.01–5 mbar/hPa/Torr, ±3 mbar for > 5 mbar	
Measuring principle	Ceramic diaphragm sensor + ceramic jacketed Pirani sensor	
Connections		
Cable (length)	2 m	79 in.
Plug connector	VACUU·BUS®	
Vacuum connection	Small flange KF DN 16 Hose nozzle DN 6/10	

Technical data

Display		
Type	LC display (LCD)	
Brightness control	yes	
Pressure reading	switchable: mbar, Torr, hPa	
Weight and dimensions*		
Weight	190 g	(US) 0.4 lb
Dimension sheet	103 mm x 62 mm x 50 mm 4 in. x 2.4 in. x 2 in.	

* without wall power supply

9.1.2 Wetted materials

Wetted materials

Component	Wetted materials
VACUU-VIEW	
Vacuum sensor	Aluminium oxide ceramics
Metering box + small flange	PP
Sealing ring at the sensor	chemically resistant fluorelastomer
Hose nozzle	PPS, glass fiber reinforced
O ring (KF 16)	FKM
VACUU-VIEW extended (only deviant items)	
Metering box + small flange	PPS, glass fiber reinforced
Sealing ring at the sensor	FFPM