

## 8 Appendix

### 8.1 Technical information

<b>Type</b>	
Absolute pressure gauge – <i>rough vacuum</i>	<b>DVR 2pro</b>


#### 8.1.1 Technical data


Technical data

<b>Vacuum data</b>	
<b>DVR 2pro</b>	(US)
Measuring range, absolute	1060–1 mbar 795–1 Torr
Max. admissible pressure, absolute	1,5 bar 1125 Torr
Temperature coefficient	< ±0.15 mbar (hPa)/K < ±0.11 Torr/K
Vacuum sensor (pressure transducer)	internal internal
Resolution	1 mbar 1 Torr
Accuracy of measurement	< ±1 mbar/hPa/Torr, ±1 digit (after adjustment, constant temperature)
Measuring principle	Ceramic diaphragm (alumina), gold-coated, capacitive, gas type independent, absolute pressure
Measuring cycle	State of delivery <b>CA</b> automatically; Selectable measuring cycle: <b>C1</b> = 1x per 3s, <b>C2</b> = 1x per 1s, <b>C3</b> = 3x per 1s, <b>CA</b>
Max. admissible media temperature (gas) non-explosive atmosphere:	
momentarily (< 5 Minutes)	80 °C 176 °F
Continuous operation	40 °C 104 °F
<b>Ambient conditions</b>	
(US)	
Working temperature	10–40 °C 50–104 °F
Storage and transport temperature	-10–60 °C 14–140 °F
Altitude, max.	3000 m über NHN 9840 ft above sea level
Relative humidity	30–85 %, non condensing
Pollution degree	2
Temperature compensation	--- ---

Technical data

<b>Connections</b>	
Vacuum connection	Small flange KF DN 16
	Hose nozzle DN 6/10

<b>Electrical data vacuum gauge</b>	
Power supply	9 VDC
Alkaline battery	
Battery lifetime at	4000 h
Measuring cycle  , approx.	
Protection type / Impact energy	IP 40 / 5 J

<b>Display</b>	
Type	LC display (LCD)
Pressure reading	switchable: mbar, Torr, hPa
Automatic switch-off	State of delivery 5 minutes Power-on time selectable 1–600 Minutes or  = Continuous operation

<b>Weight and dimensions</b>		(US)
Weight, approx.	400 g	0.88 lb
Dimension with small flange KF	115 mm x 115 mm x 56 mm 5 in. x 5 in. x 2.2 in.	
Measurement chamber inner volume (without hose nozzle)	4,23 cm <sup>3</sup>	0.26 in <sup>3</sup>

**8.1.2 Wetted materials**

Wetted materials

<b>Component</b>	<b>Wetted materials</b>
Vacuum sensor	Aluminium oxide ceramics, gold-coated
Sensor housing	PBT GK 30
Sealings	chemically resistant fluorelastomer
Connection flange KF	PP GF 30
Hose nozzle	PP