

VD81 - Compact Vacuum Meter Piezo, Data Logger

Absolute Pressure 1600 to 1 mbar



VD81 at a glance

- Chemically resistant ceramic sensor with FKM sealing
- Vacuum connection by small flange, G1/4 female thread or screw in hose nozzle
- Adjustable min. logging rate of 50 ms for fast processes
- High repeatability
- Very good long term stability
- Battery life time up to 5000 h
- Gas-type dependent measurement
- Insensitive against contamination

Features of the VD8 product family

- Operation with battery or power supply for mobile use and fixed installation
- Display for direct reading of measurement data
- Integrated data logger for up to 2000 measurement values
- Can be placed directly in the vacuum chamber
- Continuous operation or automatic switch off for battery saving
- Setting option: storage of minimum and maximum pressures
- Long battery lifetime thanks to clocked measurements
- Pressure units mbar, Torr, hPa
- USB interface for easy push button data transfer to PCs, but no PC connection is necessary during measurements
- Easy configuration and readjustment of the vacuum meter by VacuGraph™ software or directly on the gauge
- VacuGraph™ Windows software to visualize, analyze and save measurements

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Technical Data

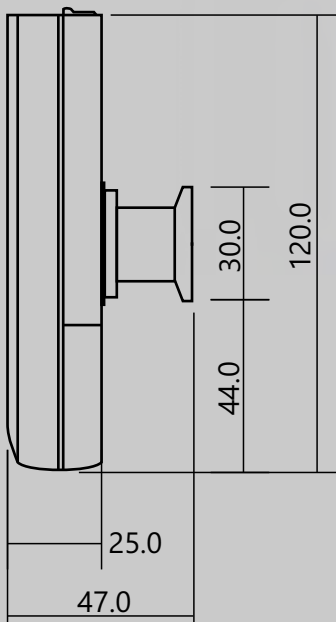
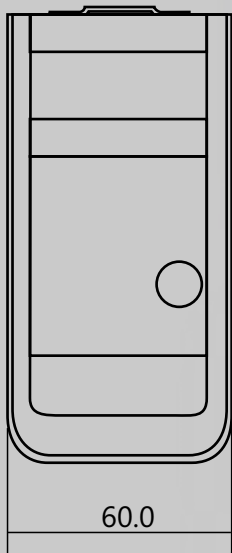
Measurement Principle	Piezo resistive, independent of gas type
Measurement Range	1600 - 1 mbar (1200 - 1 Torr)
Max. Overload	4 bar absolute
Accuracy	0.3% f. scale end
Resolution	1 mbar
Measurement Rate	1.0 s (0.1 s if logging rate is set accordingly)
Logging Rate	0.1 s, 1 ... 6000 s
Materials With Vac. Contact	Stainless steel 1.4305, Al ₂ O ₃ ceramic, FKM
Operating Temperature	+5...+50 °C
Storage Temperature	-20...+60 °C
Power Supply	9 V battery or 12...15 VDC external
Power Consumption	Approx. 2 mW (clocked)
Operating Time	Li-battery: <5000 h, 6LR61 Alkaline: <2500 h NiCd rechargeable battery 150mAh: <500 h
Serial Interface	Mini-USB, Type B, 5pin, female, Virtual Com Port protocol
Electrical Connection	Mini-jack 2.5 mm for plug-in power supply
Vacuum Connection	Small flange DN 16 ISO KF, G1/4 female or hose nozzle (accessory VD81SW1)
Display	LCD 12 mm
Protection Class	IP40
Weight	Approx. 200 g (battery included)

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Dimensions in mm



Model designations

- VD81 Compact vacuum meter
DN 16 ISO KF with G 1/4 female thread

Accessories

- VD8ZUB accessory set consisting of:
 - VD8CASE protective plastic case
 - VD8N4 power supply 15 V, incl. change-over plug, EURO, US, UK, AUS
 - VD8ALK alkaline battery 9 V (vacuum tested);
 - WUSB0002 interface cable, 2 m, USB;
 - VGR VacuGraph Windows® software

Further accessories as well as detailed information about our product family can be found in our VD8 brochure.

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