VD81 - Compact Vacuum Meter Piezo, Data Logger

Absolute Pressure 1600 to 1 mbar



Overview VD81 vacuum meter

- Chemically resistant ceramic sensor with FKM sealing, suitable for rough industry environment
- Insensitive against contamination
- Adjustable min. logging rate of 50 ms for fast processes, e. g. for the area of vacuum packaging
- Gas-type independent measurement

Overview VD8 vacuum meters

- Can be used as a portable instrument or for permanent installation in vacuum facilities. The gauges can be operated by a battery or a plugin power supply
- Integrated data logger for up to 2000 measurement values
- Vacuum meters can be placed directly into a vacuum chamber, connected to an appliance with their flange or with a suitable adaptor
- Storage of minimum and maximum pressures achieved during measurement
- Pressure units: mbar, Torr, hPa
- High battery lifetime due to cycled measurements; the user can choose between automatic switch off (time adjustable) for battery saving or continuous operation
- USB interface for easy push button data transfer to PCs, but no PC connection is necessary during measurements
- VacuGraph™ Software: To visualize, analyze and save measurements on a PC (lite version free of charge)

VD81 - Compact Vacuum Meter Piezo, Data Logger

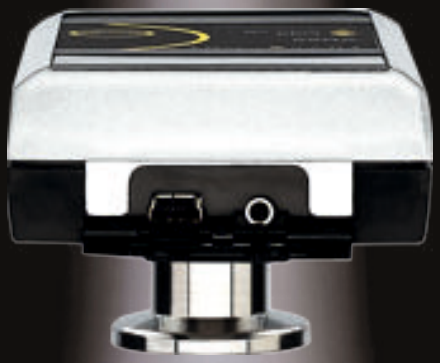
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Technical Data

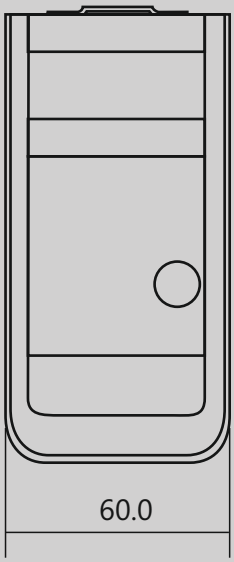
Measurement Principle	Piezo resistive, independent of gas type
Measurement Range	1600 - 1 mbar (1200 - 1 Torr)
Max. Overload	4 bar abs.
Accuracy	0.3% f. s.
Resolution	1 mbar
Measurement Rate	1.0 s (0.1 s if logging rate is set accordingly)
Logging Rate	0.1 s, 1 ... 6000 s
Materials With Vac. Contact	Stainless steel 1.4305, Al_2O_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)

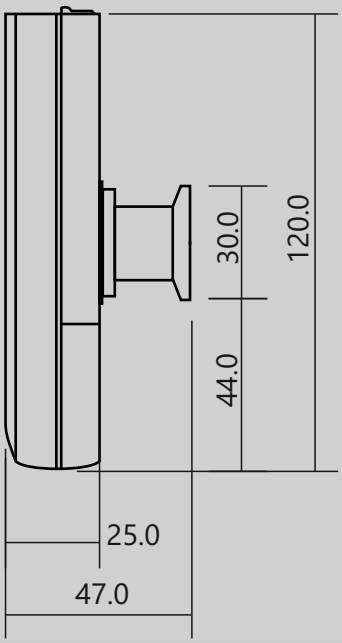
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Dimensions in mm





Model designations

- VD81 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™ software

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