

VD85 - Compact Vacuum Meter Piezo / Pirani, Data Logger

Absolute Pressure 1200 to 5×10^{-4} mbar



Overview VD85 vacuum meter

- Wide measuring range due to combined piezo/Pirani sensor, ideal e. g. for the maintenance of vacuum pumps and systems
- Excellent long term stability
- Pirani sensor with durable, elastic helix filament
- Stable measuring values due to optimized temperature compensation
- Integrated data logger for up to 2000 measurement values

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)

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Technical Data

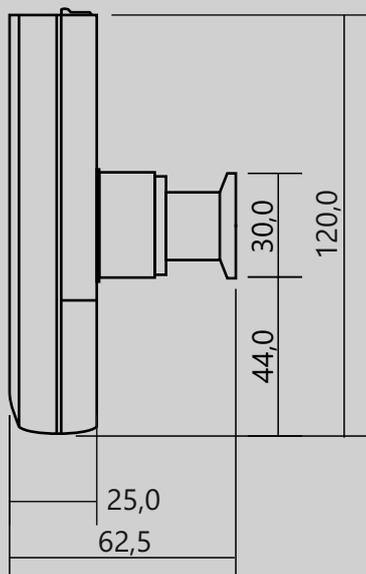
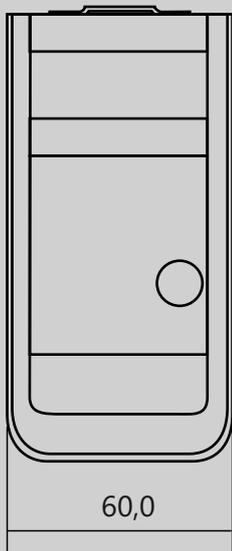
Measurement Principle	Piezoresistive / heat conduction Pirani, (Pirani depending on gas type)
Measurement Range	1200 - 5×10^{-4} mbar (900 - 5×10^{-4} Torr)
Max. Overload	2 bar absolute
Accuracy	1200 - 40 mbar: 0.3% f. s. 40 - 2×10^{-3} mbar: 10% f. r.
Resolution	1200 - 1000 mbar: 1 mbar 1000 - 1 mbar: 0.1 mbar <1 mbar: 2 digits mantissa, 1 decimal place
Measurement Rate	1.0 s
Logging Rate	1 ... 6000 s
Materials With Vac. Contact	Stainless steel 1.4307, gold, nickel, tungsten, glass, FKM
Operating Temperature	+5...+50 °C
Storage Temperature	-20...+60 °C
Power Supply	9 V battery or 12...15 VDC external
Power Consumption	Approx. 110 mW (clocked)
Operating Time	Li-battery: <100h, 6LR61 Alkaline:<40h
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	Stainless steel small flange DN16 ISO KF
Display	LCD 12 mm
Protection Class	IP40
Weight	Approx. 230 g (battery included)

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Dimensions in mm



Model designations

- VD85 Compact vacuum meter
DN 16 ISO-KF flange

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.