VD81 - Compact Vacuum Meter Piezo, Data Logger
Absolute Pressure 1600 to 1 mbar

THYRACONT
Vacuum Instruments

977.6 mbar

THYRACONT

VD81

▲ cont
▼ auto off

mode

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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 independent measurement

- Insensitive against contamination

- Operation with battery or power supply for mobile use and fixed installation

- Integrated data logger for up to 2000 measurement values

- Pressure units mbar, Torr, hPa

- USB interface for easy push button data transfer to PCs, but no PC connection is necessary during measurements

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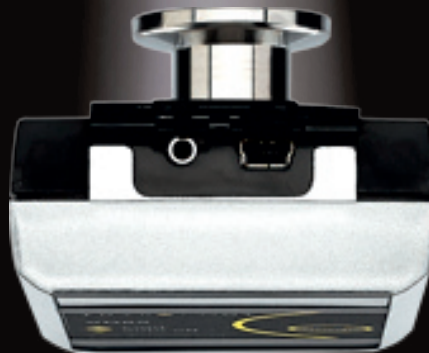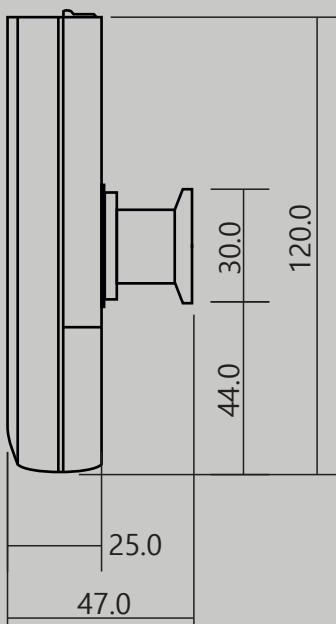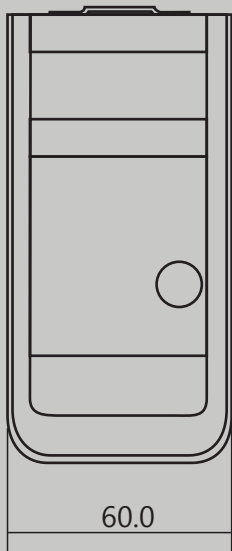**Technical Data**

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_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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T H Y R A C O N T
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Dimensions in mm

60.0

120.0
30.0
44.0
25.0
47.0

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™ software

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