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VD83

VD83 precision digital vacuum meter measures absolute pressure in the fine vacuum range.

It is available with USB interface and can be used as data logger.

The VD83 can be operated with either battery or external power supply making it ideal for portable or fixed applications.

Typical Applications

- Checking and setup of vacuum appliances
- Diagnosis and documentation of rotary vane vacuum pumps
- Service and maintenance
- Modern teaching aid with PC interface
- Recording and plotting of pump down diagrams
- Leak tests
- Vacuum centrifugation
- Coating plants
- Evaporators

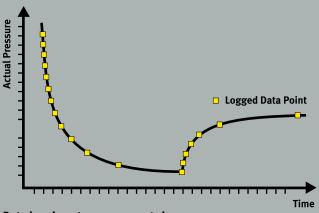
Compact Vacuum Meter / Data Logger Absolute Pressure 100 to 5 x 10⁻⁴ mbar



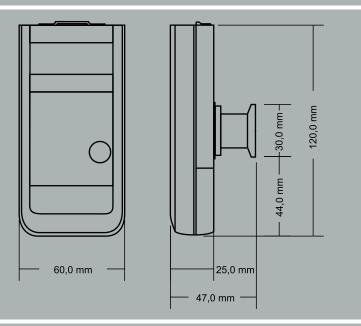
Benefits

- Temperature compensated, metal sealed Pirani sensor with durable helix filament
- High accuracy
- Excellent repeatability
- The sensor is well protected against condensed solvents
- High battery life due to clocked measurement
- Compact, user-friendly
- Pressure units mbar, Torr, hPa
- Min/Max memory: Storage and display of high and low values
- Gas correction factors for correct pressure readings
- Precise push button readjustment
- Battery conserving auto-off mode or continuous operation

- User friendly operational concept
- USB interface
- Easy configuration of the vacuum meter by VacuGraphTM software or directly at the instrument
- Measuring rate of the data logger can be arbitrarily set by means of VacuGraphTM software or directly selected at the instrument
- Online data transfer to PC via USB
- Data logger functionality:
 Save up to 2000 measurements in the vacuum meter and push button data transfer to a PC; no PC connection is necessary during the measurement
- VacuGraphTM software for saving and plotting measurements on PC



Data logging at measurement changes



Technical Data

Measuring Principle	Pirani, depending on gas type
Materials In Contact With Vacuum	Stainless steel 1.4307, tungsten, nickel, glass
Measurement Range	100 - 5 x 10 ⁻⁴ mbar (75 - 5 x 10 ⁻⁴ Torr), max. overpressure 4 bar absolute
Resolution	2-digit plus exponent
Accuracy	100 - 20 mbar: < ±30% from reading 20 - 2 x 10 ⁻³ mbar: < ±10% from reading < 1 x 10 ⁻³ mbar: < factor 2
Measuring Rate	1.0 S
Data Logging Rate	1999 s
Operating Temperature	+5+50°C
Storage Temperature	-20+60°C
Power Supply	9 V block battery, NiCd rechargeable battery or 15 VDC external
Electrical Connection	Jack for external power supply
Power Consumption	Approx. 110 mW
Vacuum Connection	Stainless steel small flange DN 16 ISO-KF
Operating Time	Max. 100 h with 9V lithium battery, max. 40 h with 9V Alkali-Mangan battery
Display	LCD 12 mm
Protection Class	IP40
	Approx. 200 g (battery included)

Product Codes

• VD83

Compact vacuum meter, 100 to 5 x 10⁻⁴ mbar, DN 16 ISO-KF flange

Accessories:

VD8CASE

Protective case

• VD8ALK

AlMn battery, 9 V block 6LR61

· VD8N4

External power supply, 100 to 240 VAC

• VD8ANS

Connection set with tee
DN 16 ISO-KF, 2 centering rings and
2 clamps

• VGR

VacuGraphTM software for Windows

• WUSB0002

Interface cable USB, shielded, 2 m