



DIGITAL VACUUM GAUGES:

The new VD series of digital vacuum gauges was developed to facilitate measuring the vacuum of pumps or vacuum systems. These instruments cover an absolute pressure measurement range from 1300 to 0.0005 mbar (depending on the model); reading is made easier by the large high-contrast display. The main features of these instruments are as follows:

- Low battery consumption thanks to non-continuous measurement;
- Programmable automatic shut-off;
- Connection by DN flange or stepped hose fitting;
- Portable and compact;
- Excellent stability over time. Unit of Measure in mbar, Torr, hPa.
- Accurate calibration without potentiometers.
- Internal memory for queries at brief intervals.
- May be connected to an external power supply.

The instruments are supplied complete with instruction manual and plastic carrying case. Battery not included.

Model VD 80.

This model operates taking advantage of piezoresistive sensors according to which a piezoresistive component under the action of a load generates a variation of the electrical resistance in correlation to changes in pressure. The main advantages include:

- Reading the pressure regardless of the type of gas;
- Very rapid response time;
- Extremely sturdy construction.

Model VD 84.

This instrument operates taking advantage of the principle of the thermal conductivity of gases. A filament, exposed to the pressure to be measured, is heated by electrical current and the density of the gas extracts heat from the filament itself, altering its electrical resistance. This provides a signal which, when appropriately processed, indicates the pressure, which in any case will depend on the nature of the gas. The main advantages include:

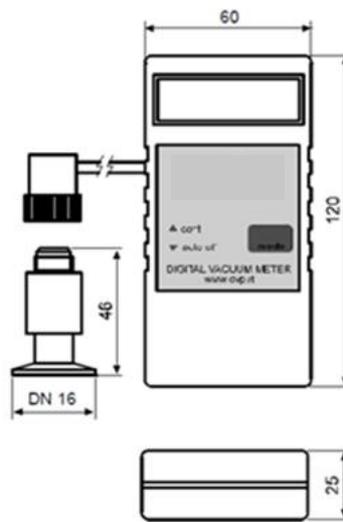
- Rapid response time
- Sturdy construction.

Model VD 85.

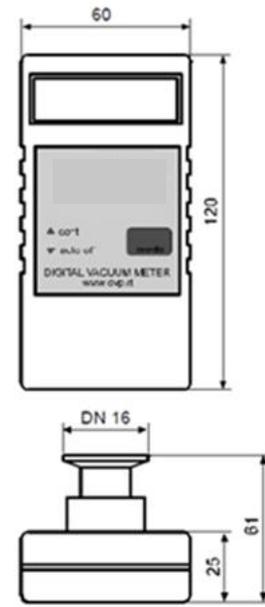
This model incorporates the operating principles of the previous models in a single instrument, combining their advantages while remaining compact in size.



VD 80



VD 84



VD 85

	VD 80	VD 84	VD 85
Catalogue code	9009053	9009051	9009052
Measuring principle	Piezo	Pirani	Piezo + Pirani
Measuring range (abs.)	mbar	1300 ÷ 1	100 ÷ 0,001
Accuracy	± 0,2% full s.	100 ÷ 20 mbar < 30% f.r. 20 ÷ 1x10 ⁻² mbar 10% f.r. < 1x10 ⁻² mbar < factor 2 f.r.	1200 ÷ 10 mbar 0,3%f. s. (f.scale end) 10 ÷ 2x10 ⁻³ mbar ±10% f.r. < 2x10 ⁻³ mbar < factor 2 f.r.
Admissible overpressure (abs.)	bar	4	4
Measuring cycle	sec	4	1
Power supply	9VDC IEC 6F22 (6LR61) or 12VDC external		
Operating room temperature	°C	0 ÷ 50	5 ÷ 50
Ambient temperature for storage/transport	°C	-20 ÷ 70	-20 ÷ 60
Max battery lifetime	h	300	40 (Alcaline- Alkaline)
Vacuum connection	Ø4	DN16 ISO KF	
Weight (without battery)	kg [N]	0,12 [1,18]	0,200 [1,96]
Overall dimensions	mm	153x71x35	120x60x25
Protection filter		1803011	-----
Hose connection		6832B03	-----

Subject to change without prior notice