



INSTRUCTION MANUAL

Digimano 1000

Pressure Vacuum Meter



Netech Corporation
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Dear User:

We appreciate your purchase of the Digimano 1000 Digital Pressure Vacuum Meter. Properly used, the instrument will deliver years of high performance and accuracy.

This instruction manual has been designed as a tool to assist you in getting the most from your Digimano 1000. In order to properly use and to maintain this instrument, please read the manual carefully.

Netech is recognized as an innovative designer and manufacturer of advanced biomedical and industrial test instruments. We are ISO 9001-2000 Registered and fully committed to a continuous improvement process. Further, we guarantee absolute satisfaction with our products.

Your business is important to us and we are dedicated to providing you with the best customer and technical service possible. Please contact us should you have any questions or concerns regarding your instrument.

We hope you will consider us again when you have a requirement for accurate, reliable, affordable test instruments.

Sincerely,

NETECH CORPORATION

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GENERAL DESCRIPTION

The Digimano 1000 is a portable digital instrument designed to measure the pressure and vacuum of non-corrosive fluids and gases. The versatile instrument presents its measurement results in one of two engineering units on a large 3 _ digit LCD display.

The Digimano 1000 has an accuracy of 0.25% full scale. Seven models with different engineering units and pressure ranges are available

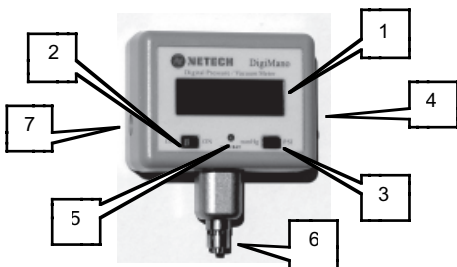
\To provide superior performance, the Digimano 1000 incorporates one of the latest semiconductor pressure sensors. It is powered by one 9-Volt alkaline battery. Optionally, an AC adapter may be used.

The Digimano 1000 is CE marked and is shipped with a Certificate of Calibration traceable to the NIST.

The Digimano 1000 is a rugged instrument that performs its measurements quickly, accurately, and with ease.

CONTROLS AND INDICATORS

- 1. Display:** A 3_ Digit LCD indicates the result of the measurement being made.
- 2. On-Off Switch:** Turns instrument on and off.
- 3. Unit Selector Switch:** Selects desired units of measurement.
- 4. Zero Adjust:** Manual zero adjustment potentiometer.
- 5. Low Battery Indicator:** LED lights when the battery is ≤ 6.8 volts.
- 6. Pressure Port:** Female Luer lock connector.
- 7. Connector for AC Adapter:** Use optional part 302 AC adapter.



OPERATING INSTRUCTIONS

1. Turn the Digimano 1000 on and allow two minutes for the transducer to warm up and stabilize.
2. Select the desired engineering unit to be displayed.
3. With no pressure applied the display should read zero (0). If not, adjust the manual zero adjustment potentiometer.
4. Connect the Digimano 1000 to the device to be tested or to a pressure vacuum line.
5. Read the pressure or vacuum in the measurement units that have been selected by the Unit Selector Switch. The negative sign (-) will be displayed when reading vacuum measurements.

PRECAUTIONS

1. Do not exceed the rated maximum pressure of the instrument, although a transient pressure of two times the rating will generally be tolerated.
2. Do not connect the instrument to corrosive gases or highly ionic fluids.
3. Do not continue to use if the instrument is wet.

Trouble Shooting

When inaccurate pressure vacuum readings are suspected, check the following items:

1. Install a fresh 9 Volt battery.
2. Turn the Digimano 1000 on and verify that the display reads zero with no pressure applied to the instrument, 00 ± 1 count .
3. Adjust the zero adjustment potentiometer as necessary.
4. Connect the instrument to a pressure source, apply a known pressure, and verify the reading within the specifications of the Digimano 1000 model, $0.25\% \pm 1$ count.

CALIBRATION

The Digimano 1000 pressure vacuum meter is shipped from the factory fully calibrated with a Certificate of Calibration traceable to NIST. Annual calibration is recommended. Contact the Customer Service Department for instructions for returning the instrument to Netech for either calibration or repair.

SPECIFICATIONS

Display: 3-1/2 Digit 0.5 in LCD.

Polarity Display: The negative sign (-) is displayed when there is a vacuum reading.

Accuracy: 0.25% full range, ± 1 count
(Pressure Only).

Operating Temperature: 0^o C to 40^o C

Media Compatibility: Non-corrosive fluids and gases.

Maximum Pressure: Double the rated Pressure.

Power: One 9 volt alkaline battery or optional AC adapter.

Low Battery Indicator: LED on if battery Voltage is ≤ 6.8 volts.

Physical Dimensions:

Size: 3 X 2 X 1.4 in (7.6 X 5 X 3.6 cm)

Weight: 6.5 oz (.18 kg)

Digimano 1000 Standard Models:

Model #	Measurement Units and Range
200IN	199.9 mmHg / 199.9 inH ₂ O
2000IN	1999 mmHg / 199.9 inH ₂ O
200PS	199.9 mmHg / 19.99 PSI
2000PS	1999 mmHg / 19.99 PSI
200cmH ₂ O	199.9 cmH ₂ O / 19.99 PSI
200kPa	199.9 kPa / 1999 cmH ₂ O
2000kPa	199.9 kPa / 199.9 inH ₂ O

ACCESSORIES

Description	Part Number
Tubing and Connector Set	203
User Manual	Digimano 1000 Rev 2

OPTIONAL ACCESSORIES

Description	Part Number
Soft Carrying Case	201
Precision Syringe Pump	204
110 Volt AC Adapter	302



Copyright

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Quality Assurance

Netech Corporation is ISO 9001-2000 Certified. This instrument was thoroughly tested and inspected according to Netech s ISO 9001-2000 quality standards (ISO/IEC 17025) and test procedures, and was found to meet those specifications when it was shipped from the factory.

Warranty

Netech warrants the Digimano 1000 against defects in materials and workmanship for one year from the date of original purchase.

During the warranty period, we will repair or, at our option, replace at no charge a product that proves to be defective, provided you return the product shipping prepaid to Netech Corporation. This warranty does not apply if the product has been damaged by accident or misuse, or as the result of service or modification by other than Netech

Corporation, or if its serial number is defaced or removed.

Netech reserves the right to discontinue the Digimano 1000 at any time, and change its specifications, price, or design without notice and without incurring any obligation. Netech guarantees availability of service parts for 5 years after the manufacture of the unit is discontinued.

The warranty is void if you elect to have the unit serviced and / or calibrated by someone other than Netech.

The purchaser assumes all liability for any damages or bodily injury that may result from the use or misuse of the unit by the purchaser, his employees, agents or customers.

In no event shall Netech Corporation be liable for consequential damages

Trademarks

Netech and Digimano 1000 are trademarks of Netech Corporation. Any other trademark names used in this manual are only for editorial purposes and the benefit of the respective trademark owner, with no intention of improperly using that trademark.

APPENDIX



Designing and Manufacturing Innovative
Biomedical and Industrial Test Instruments for
Over 16 Years.

- Electrical Safety Analyzers
- Pressure Vacuum Meters
- Pacemaker Analyzers
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- Patient Simulators



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