

DigiMano 2000

User Manual



▶ **Compact**

▶ **Lightweight**

▶ **Easy to Use**

Pressure Vacuum Meter (Precision Instrument)



NETECH

Innovative Instruments Since 1987

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Notices

Copyright

Copyright © 2025 by Netech Corporation. All rights reserved. No part of this publication may be reproduced or transmitted in any form other than for the purchaser's personal use without written permission from Netech Corporation.

Quality Assurance

Netech is ISO 9001-2015 Registered. This instrument was thoroughly tested and inspected according to Netech's ISO 9001-2015 quality system and test procedures and found to meet those specifications when it was shipped from the factory. Calibration measurement Instruments are traceable to the NIST (National Institute of Standards and Technology).

Trade Mark

Netech and DigiMano 2000 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

Unpacking and Inspection of the Unit

Before unpacking the DigiMano 2000, inspect the shipping box for any visual damage. If damage is found, do not unpack the unit and immediately notify the shipping carrier. If no damage is found to the shipping box, open the box and perform a visual inspection of the DigiMano 2000. If any damage to the unit is observed please contact Netech Customer Service.

Technical Support

For technical support questions, either email

Techsupport@NetechBiomedical.com or Call 1-800-547-6557

or (1-631-531-0100)

Refunds and Credits

A Return Material Authorization (RMA) number must be obtained from our service or customer service dept, before a product is returned for refund or credit. The RMA number should be clearly marked on the package along with a statement indicating the reason for return.

Restocking Charges

Products returned within 30 days after purchase are subject to a restocking charge of 15%. Products must be shipped prepaid in original shipping cartons with all accessories and parts. Additional charges will be applied for any missing parts or accessories.

Repair and Recalibration

Products returned for repair or recalibration must obtain a RMA (Return Material Authorization) from our service department after completing a service request form our website <https://www.NetechBiomedical.com/repair> or contact Netech Customer Service

Department at CustomerService@NetechBiomedical.com

Calibration

The DigiMano 2000 is factory calibrated, thoroughly tested, and meets Netech's ISO 9001-2015 quality standards.

Any attempt to remove or tamper with the calibration seal will void the warranty.

General Contact Information

Netech Corporation, 110 Toledo St, Farmingdale, NY 11735.

Phone: 631-531-0100, (or) 1-800-547-6557

Website: www.NetechBiomedical.com

Email: sales@NetechBiomedical.com

Warnings

SYMBOL	DESCRIPTION
	Caution: Important Safety Information
	Hazardous Voltage
	Conforms to European Union Directive

Caution



Do not exceed the rated maximum pressure of the instrument. Although a transient pressure of two times the rating will generally be tolerated, prolonged exposure to higher pressure may cause sensor damage.



Do not connect the instrument to corrosive gases or highly ionic fluids.



Do not continue to use the instrument if it is wet.



Avoid using at extreme temperatures.

Introduction

Description

The DigiMano 2000 is a portable instrument designed to measure the pressure and vacuum of non-corrosive fluids and gases. It is housed in an aluminum case. A large 3½ digit LCD display presents measurement results in one of five selectable engineering units.

To provide superior performance, the DigiMano 2000 uses 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 2000 is available in sixteen models with different engineering units of display, pressure ranges, and accuracies.

The DigiMano 2000 is CE marked and is shipped with a Certificate of Calibration traceable to the NIST.

The DigiMano 2000 is a rugged instrument that performs its measurements quickly, accurately, and with ease.

DigiMano 2000 Features

- Pressure and Vacuum Readings
- Large 4.5 inch LCD display
- Displays 5 Engineering Units (PSI, mmHg, InH₂O, mBar, cmH₂O)
- Peak Pressure Reading
- Automatic Zero
- Rugged Aluminum Case

Preparation for Use

The DigiMano 2000 is shipped with the following items included in the customized hard case:

- DigiMano 2000
- Hard Carrying Case
- User Manual

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 scale \pm 1 count, Vacuum 1% all models

Operating Temperature: 00°C to 400°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: LO BAT on display if battery Voltage is \leq 6.8 volts.

Physical Dimensions: Size: 4.75 X 2.5 X 1.5 in (12 X 6.5 X 4 cm)
Weight: 11.9 oz (0.34kg)

Instrument Familiarization

Before getting started, it is important to get familiar with the control and operation of the unit.



Figure 1. DigiMano 2000 Controls

Number	Description
1	Graphics LCD Window - A 3½ Digit LCD indicates the result of the measurement being made.
2	Peak Button - Select peak pressure reading.
3	On/Off Button - Turns the DigiMano 2000 on and off.
4	Pressure Port - 1/8" FPT adaptable to any standard fitting.
5	Unit Button - Select the desired unit of measure for display. A lit LED will indicate the unit.
6	Zero Button - Automatic adjustment of zero.
7	Connector for AC Adapter - Use optional part 302 AC adapter.

Operating Instructions

1. Turn the DigiMano 2000 on and allow two minutes for the transducer to warm up and stabilize.
2. Select the desired engineering unit of measure to be displayed. The previously selected unit will be displayed when the instrument is first turned on.
3. With no pressure applied the display should read zero (0). If not, push the automatic zero button.
4. Connect the DigiMano 2000 to the device to be tested or to a pressure vacuum line.
5. Read the pressure or vacuum in the measurement units selected. The negative sign (-) will be displayed when reading vacuum measurements.
6. For peak pressure readings push the PEAK button. The display will alternate between "PE" and the maximum pressure reading since entering peak mode. To return to normal operation push the PEAK button again.
7. The display update rate may be increased by holding the PEAK and UNIT buttons.
8. Over time the initial reading at startup may drift slightly from zero. This offset may be permanently stored by pushing the UNIT and ZERO buttons while turning the meter on. Hold the buttons until the display reads "0000" then "----". Turn the meter off and on and the new zero offset will be stored in memory.

Troubleshooting

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

1. Install a fresh 9 Volt alkaline battery.
2. Turn the DigiMano 2000 on and verify that the display reads zero with no pressure applied to the instrument, 00 ± 1 count.
3. Push the automatic zero button.
4. Connect the instrument to a pressure source, apply a known pressure, and verify the reading within the specifications of the DigiMano 2000, at $0.25\% \pm 1$ count and Vacuum 1% all models

Maintenance

Additional Calibration/Service Information

The mechanical assembly of DigiMano 2000 contains no parts that can be serviced by the user. The unit should be returned to Netech Corporation for repair or calibration.

The alignment and adjustment parameters are critical to the robust and efficient performance of the unit and can be performed only at the factory.

The unit is factory calibrated with NIST traceable standards and recommended to be calibrated once a year.

Netech maintains a complete repair and recalibration service at a very low cost and fast turnaround. Estimates for repair and recalibration are available upon request.

DigiMano 2000 contains NO USER SERVICEABLE PARTS and calibration/ service should be performed only by Netech. Attempt to repair / service the unit outside Netech voids the warranty.

Warranty

Netech warrants this instrument to the original purchaser, as purchased from a Netech distributor or dealer, will conform to the written specification as of the date of its manufacture, for two years from the date of purchase. The second-year warranty is contingent upon returning the unit to the factory for the annual recalibration at the end of the first year warranty. Netech warrants this instrument against defects in materials and workmanship. If the instrument fails to conform to these warranties, Netech will repair or replace the unit and/or its components within a reasonable period; if the DigiMano 2000 is returned, shipping prepaid, to Netech's facility at Farmingdale, NY, USA within the warranty period as expressed above.

These warranties are made upon the expressed condition that:

- 1. The purchaser promptly notifies Netech in writing of any nonconformity with the above warranty including a detailed explanation of the alleged deficiencies.*
- 2. The DigiMano 2000 is returned to Netech at the buyer's expenses only after obtaining the proper RMA authorization from Netech.*
- 3. Netech will not be liable for any incidental or consequential damages.*
- 4. In the opinion of Netech upon inspection, the DigiMano 2000 has not been misused, altered, or damaged due to the abnormal handling and/or operation.*
- 5. Repairs to the DigiMano 2000 and/or its components have not been made by anyone other than Netech or one of its authorized repair agents.*
- 6. The DigiMano 2000 has not been modified, altered, or changed in any manner by anyone other than Netech or one of its authorized repair agents.*
- 7. All shipping and handling charges will be billed to the purchaser.*

THIS WARRANTY EXCLUDES ALL OTHER WARRANTIES, WHETHER EXPRESSED OR IMPLIED, ORAL OR WRITTEN, INCLUDING WITHOUT LIMITATION WARRANTIES OF MERCHANTABILITY AND/OR FITNESS FOR A PARTICULAR PURPOSE. NETECH IS NOT LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES OR LOSSES FROM ANY MISUSE OF THE INSTRUMENT.

To receive free software and firmware updates, please fill out and send the warranty registration card or fill out online warranty registration: -
<http://www.NetechBiomedical.com/warranties>

Appendix: A

Current Revision: R4 08/29/25

Pages revised from the previous Revision (R3).



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