

Product Description

The Puritan-Bennet PTS 2000 Tester uses both ventilator and oxygen test systems technology to measure pressure, flow, volume, oxygen concentration, N₂O and barometric pressure.

Small, fast and affordable, this portable tester may be used as a stand-alone instrument or in conjunction with BreathLab PTS Performance Test Systems.

PTS 2000 Performance Test System Includes:

- Tester, PTS 2000
- Power Supply
- Cable, RS232 (10 feet)
- Shipping Box, PTS 2000
- Re/Flex Inspiratory Bacteria Filter, barb (with coupling)
- Low Flow Filter
- Quick Connect coupling, 1/8" (female)
- Power Cord, 120V, 60 Hz (North America and Japan)
- PTS 2000 User's Manual, English

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Mallinckrodt Puritan-Bennet PTS 2000 Ventilator Analyzer



Highlights

- Accurately measures pressure, flow, volume, oxygen concentration and barometric pressure
- Measures N₂O flow
- Measures air, O₂, air/O₂ mixture
- Single, multifunction screen
- Displays 20 selected parameters on 10 user-configurable screens
- Provides 12 trigger levels that can be selected for peak low pressure, peak high flow, breath rate and volume
- Numeric display of two real-time measurements
- Auxiliary menu for O₂ calibration and sensor management
- English and metric units for pressure, flow and volume
- User-replaceable O₂ sensor
- Operates independently of software
- Portable, lightweight, rugged design



Low Flow (air or oxygen)

- **Range:** 0 to 15 slpm
- **Accuracy** (in slpm mode only) when operated within specified atmospheric pressure range and 15 to 25°C: \pm (1.75% of reading + 0.025 slpm)

Low Flow (nitrous oxide)

- **Range:** 0 to 15 slpm
- **Accuracy** (in slpm mode only) when operated within specified atmospheric pressure range and 15 to 25°C: \pm (3.00% of reading + 0.025 slpm)

High Flow and Peak High Flow (air or oxygen)

- **Range:** 0 to 300 slpm
- **Accuracy** (in slpm mode only) when operated within specified atmospheric pressure range and 15 to 25°C: \pm (1.75% of reading + 0.10 slpm)

High Flow and Peak High Flow (air/oxygen mixture)

- **Range:** 0 to 300 slpm
- **Accuracy** (in slpm mode only) when operated within specified atmospheric pressure range and 15 to 25°C: \pm (4.0% of reading + 0.10 slpm)

Volume (air or oxygen)

- **Range:** 0 to 10 STP liters
- **Trigger Threshold Range:** 12 preselected variables from 1 to 40 slpm
- **Accuracy** (in STP mode only): \pm 2% of reading or 0.02 STP liter, whichever is greater (for peak flows less than 120 slpm)

Volume (air/oxygen mixture)

- **Range:** 0 to 10 STP liters
- **Trigger Threshold Range:** 12 preselected variables from 1 to 40 slpm
- **Accuracy** (in STP mode only): \pm 4.5% of reading or 0.02 STP liters, whichever is greater (for peak flows less than 120 slpm)

Minute Volume (air, oxygen, and air/oxygen mixture)

- **Range:** 0 to 99 STP liters
- **Accuracy** (air or oxygen): \pm 7%
- **Accuracy** (air/oxygen mixture): \pm 9%

I Time

- **Range:** 0.25 to 60 seconds
- **Accuracy:** \pm 0.01 seconds

E Time

- **Range:** 0.25 to 60 seconds
- **Accuracy:** \pm 0.01 seconds

I:E Ratio

- **Range:** 1:999 to 999:1
- **Accuracy:** \pm 5%

Breath Rate

- **Range:** 0.5 to 120 bpm
- **Accuracy:** \pm 5%

Low Gauge Pressure

- **Range:** -150 to 0 or 0 to +150 cmH2O
- **Accuracy:** \pm (0.75% of reading + 0.04 cmH2O)

Peak Low Gauge Pressure

- **Range:** 0 to +150 cmH2O
- **Accuracy:** \pm (0.75% of reading + 0.04 cmH2O)

High Gauge Pressure

- **Range:** 0 to +100 psig
- **Accuracy:** \pm (1.0% of reading + 0.1 psig)

Atmospheric Pressure

- **Range:** 10 to 16 psia
- **Accuracy:** \pm 0.1 psia

Oxygen Concentration

- **Range:** 0% to 100% O₂
- **Step response** (0% to 90% of step change): 30 sec maximum (excluding transport time)
- **Accuracy:** \pm 2% O₂, when operating at the temperature and atmospheric pressure under which the oxygen sensor gain adjustment was performed

Environmental Specifications:

Temperature Operating: +50 to +104°F (+10 to +40°C) at 5% to 95% relative humidity, noncondensing
Storage: -40 to +158°F (-40 to +70°C) at 10% to 100% relative humidity, noncondensing

Altitude Operating: -1,350 to 6,562 feet (-405 to 1,969 m) maximum
Storage: 50,000 feet (15,000 m) maximum

Electrical Power

ac Input Requirements (for dc power supply)

Input Voltage: 100-250 V ac

Input Frequency: 50-60 Hz

Input Connector: Standard IEC 320 connector, three-prong, ac power socket

Output Connector: Five-pin DIN 180-degree male connector

Power Consumption

+5 V dc Output: 5 Watts (1 amp) maximum
Warm-up Time Ten minutes from power-up (with PTS 2000 in equilibrium with 15-25°C ambient temperature)

Compliance and Approvals

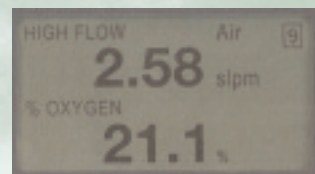
CE marking of European Conformity for the Low Voltage Directive (LVD) and the Electromagnetic Compatibility Directive (EMCD).

Electromagnetic Interference of Emissions per EN 55011 (CISPR11) (Group 1, Class B).

Electromagnetic Immunity per EN 50082-1 which refers to IEC EMC 1000-4-2, IEC 1000-4-3, IEC 1000-4-4, EN 61000-4-2, EN 61000-4-3, EN 61000-4-4, EN 61000-4-5 and ENV 50204.

North American Safety approvals for Canada and the United States by the Canadian Standards Association (CSA) with the additional NRTL/C endorsement for the United States; Laboratory Equipment IEC 1010-1. File Number LR 58941.

International Electrotechnical Commission (IEC) System for Safety of Electrical Equipment CB Scheme Test Certificate issued by the National Certification Body; Laboratory Equipment, IEC 1010-1.



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