



Making Metabolic Measurement Easy
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Accurate, Reliable with Verifiable Results

TrueOne[®] 2400

Metabolic Measurement System



Features

Accurate

- Independently validated by highly respected lab ("Validity of inspiratory and expiratory methods of measuring gas exchange with a computerized system" JAP 91:218-224, 2001.)
- Uses precision "Yeh" algorithm for flow calibration.
- Suitable in high altitude studies.
- Each system is validated with Douglas bag method before shipment.

Reliable

- Includes a 3-year standard warranty.
- Durable and robust.
- Low operating cost.

Easy to Use

- Windows 7 software.
- Gas auto-cal in 30 seconds.
- Intuitive and user friendly.

Exceptional Customer Support

- Rapid service response.
- 20-year expertise in metabolic measurement.

Applications

- Athletic Testing
- Exercise Physiology Lab
- Sports Medicine/Rehab
- Energy/Nutritional Assessment
- Cardiopulmonary Stress Testing
- Differential Diagnosis

The ParvoMedics TrueOne 2400[®] is a compact, integrated metabolic measurement system for cardiopulmonary stress testing, indirect calorimetry, and maximal O₂ consumption measurement.



Preferred by Exercise Physiologists

Used to test U.S. Winter Olympic athletes (TOSH) and Canadian Olympic athletes (U of Calgary). Also used at Cooper Institute, Harvard, Stanford, Duke, Washington, Florida, USC, and California State Universities.



TrueOne[®] 2400 Specifications

Oxygen Analyzer

Paramagnetic
Range: 0-100% or 0-25%
Accuracy: 0.1%
Response Time: 200 ms, 21%-16%

Carbon Dioxide Analyzer

Infrared
Range: 0-15%
Accuracy: 0.1% (for 0-10% CO₂)
Response Time: 100 ms

Flow Measurement

Rudolph screen pneumotach
Accuracy: +/-2%
Calibration: Precision "Yeh" algorithm
Range: 0-800 L/min

Mixing Chamber

4-liter high efficiency mixing

Calibration

3-liter syringe
16% O₂/4% CO₂ E-cylinder cal gas
2-stage regulator

Accessories and Start-up

Rudolph 2-way valve
Head support and swing arm
Mouthpieces, noseclips, breathing tubes
Water trap
Weather station
Mobile cart
One-day on-site installation and training

Software Options

Spirometry/MVV

Hardware Options/Interfaces

ECG system
Treadmill
Bike ergometer

Environmental and Electrical Specifications

Temperature: 14-30 degrees C
Humidity: 20-80%
Warm-up time: 30 minutes
Power requirements: 100-240V/50-60 Hz

Dimensions

Analyzer module: 12" W x 10" D x 5" H
Mixing chamber: 5" W x 12.5" D x 5" H
Mobile cart: 24" W x 30" D x 35" H

Standards

CSA
FDA 510(k) premarket clearance



Metabolic Measurement Software

- Easy to use Windows software
- Real-time signal display for O₂, CO₂, and flow
- User-definable real-time graphs and values
- High precision flowmeter calibration
- Summary graph (single-breath or averaged)
- Summary report (single-breath or averaged)
- Complete filing system
- Results directly exportable to Excel



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Warranty

Our standard 3-year warranty with "Express Turnaround" assures top quality.