

Avoximeter[®] 1000E

Quick, Accurate Oximetry Assessment in Cardiac Catheterization



Efficiency in the Cardiac Cath Lab

The portable Avoximeter 1000E measures total hemoglobin concentration, oxyhemoglobin fraction and computes oxygen concentration in less than 10 seconds, essential during cardiac catheterization where timing is critical.

- Quantitative measurements aid in diagnosing and detecting intracardiac and great-vessel shunts
- Ideally suited to trend O₂ Saturation while advancing catheters in right heart procedures
- Requires only 50 µL of whole blood
- Stores up to 500 samples for post-procedural case documentation
- Measures and displays differences in O₂ Saturation between adjacent anatomical sites
- Utilizes the Fick Principle to calculate cardiac output

Comprehensive Test Information

- Fractional Oxygenation Saturation

- O₂ Content

- Total Hemoglobin

- Body Surface Area

- Estimated O₂ Uptake

- Cardiac Output (Systemic Blood Flow)

- Cardiac Index

- Stroke Volume

- Stroke Index

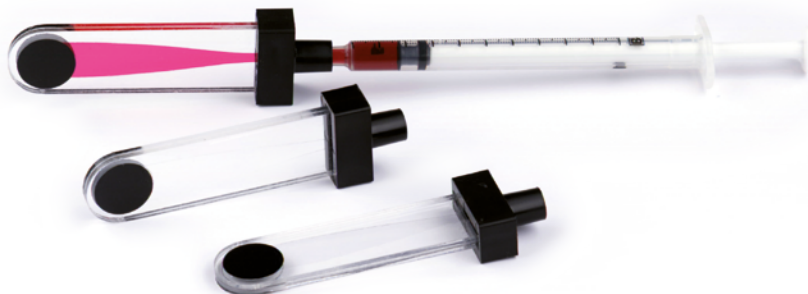
- Pulmonary Blood Flow

- Total Systemic Resistance

- Total Pulmonary Resistance

- Pulmonary-to-Systemic Flow Ratio (from flows)

- Pulmonary-to-Systemic Flow Ratio (from O₂ saturation)



Rapid, Reliable Oximetry Assessment

- Patented state-of-the-art optics use multiple wavelengths to yield accurate measurements of:
 - Fractional O₂ Saturation
 - O₂ Content
 - Total Hemoglobin
- Quantitative results in < 10 seconds
- Single-use cuvettes for maintenance-free convenience and optimal instrument performance

Designed to Be Safe, Convenient, and Easy-to-Use

- Simple, two step test method:
 - Inject 50 µL sample into cuvette
 - Insert cuvette into the instrument
- No sample preparation required
- Whole blood
- Room temperature cuvette storage with extensive shelf life
- Simple interpretation display

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Sample #1
%HbO2 = 98.6 %
[O2] = 16.4 ml/dl
[THb] = 11.9 g/dl
    
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Measurements and Ranges*

	Operating Range	Accuracy	Precision
Fractional O ₂ Saturation % (HbO ₂)	0–100%	± 1%	0.5%
Total Hemoglobin Concentration (tHb)	4–25 g/dL	< 10g/dL = 0.35 g/dL > 10g/dL = 0.45 g/dL	0.3 g/dL
Oxygen Content (O ₂ Ct)	0–35 mL O ₂ /dL	N/A	N/A

No clinically significant interferences from: Bilirubin, Hemolysis, Carboxyhemoglobin, Methemoglobin, or Fetal Hemoglobin.

*Avoximeter 1000E (Operators Manual) [Package Insert]. San Diego, CA: Revised 2016.

Avoximeter® 1000E

Facilitates Regulatory Compliance

- Results stored in memory include patient and operator identification number, date, time, LQC lot number and level, anatomical site sampled, and test result
- User-defined security features include QC, PID and OID lockouts
- Data can be transferred to most major information management systems and/or the LIS.
- Quick and easy two-point optical quality control



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