



# AVOXimeter 4000

THE WORLD'S FIRST POINT-OF-CARE CO-OXIMETER

A-VOX Systems, Inc.  
San Antonio, Texas USA



Easy to use,  
disposable  
cuvettes



Light-weight  
and portable



Easy optical  
quality control

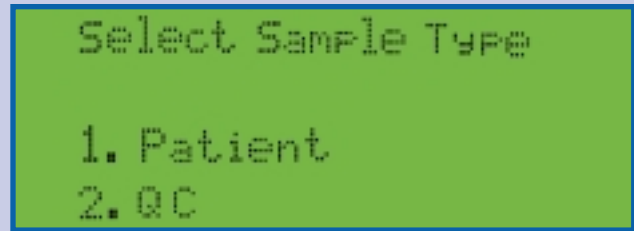


Interface to  
hospital  
computers

The AVOXimeter 4000 provides a fast, accurate assessment of patient oxygenation at the bedside. The AVOXimeter's patented state-of-the-art optics yield accurate measurements of oxy-, carboxy-, and met-hemoglobin as well as total hemoglobin. When used in combination with a blood gas analyzer, the AVOXimeter 4000 gives a comprehensive and complete assessment of the patient's oxygenation status.

The AVOXimeter 4000 is a portable, battery-powered system designed to meet the accuracy demands of today's lab managers yet is easy enough for point-of-care, bedside testing.

The AVOXimeter 4000 requires no sample preparation, needs only 50  $\mu$ l of blood, and utilizes inexpensive disposable cuvettes. Results are obtained in less than 10 seconds. Comprehensive data management, quality control, and readily available proficiency-testing materials make regulatory compliance quick and easy.



- Sample is analyzed in less than 10 seconds.
- Illuminated liquid crystal display for easy reading in dim lighting.
- Data are stored for later analysis or printing.
- Easy menu-driven operation.
- Simple data management system with security features.
- Quick and easy two-point QC.

## SYSTEM SPECIFICATIONS

### MEASUREMENTS AND OPERATING RANGES

Total Hemoglobin (tHb)	4 to 25 g/dl
Oxyhemoglobin (O2Hb)	0 to 100%
Carboxyhemoglobin (COHb)	0 to 75%
Methemoglobin (MetHb)	0 to 85%
Oxygen Content (O2Ct) calculated	0 to 35 ml/dl

### ACCURACY AND PRECISION

	Accuracy	Precision
Total Hemoglobin (tHb) (> 10 g/dl)	± 0.45 g/dl	± 0.3 g/dl
Total Hemoglobin (tHb) (< 10 g/dl)	± 0.35 g/dl	± 0.3 g/dl
Oxyhemoglobin (O2Hb)	± 1.6%	± 0.8%
Carboxyhemoglobin (COHb)	± 2.0%	± 1.0%
Methemoglobin (MetHb)	± 1.5%	± 0.7%

### INTERFERENCES

	tHb	%O2Hb	%COHb	%MetHb
Bilirubin	none	none	< 1%	< 1%
Hemolysis	none	none	< 1%	< 1%
Fetal Hemoglobin (tHb=13.5 g/dl, HbF=100%)	< 0.45 g/dl	< 1%	0.06%/ % HbF	< 1%
Indocyanine green	< 0.45 g/dl	< 1%	< 1%	< 1%

### OTHER INFORMATION

Sample type	Whole blood	Dimensions	10 x 8 x 3.75 inches (25.4 x 20.3 x 9.5 cm)
Sample volume	50 µl	Weight	4 lbs. (1.8 kg)
Time per sample	less than 10 seconds	Serial port	RS 232C (DB 9 connector)
Data display	4 x 20 characters	Battery	4 cell, NiCad
Data storage	100 samples in non-volatile memory	Battery charger	110 VAC, 220 VAC
		Approvals	FCC Class A, UL 544, CE mark

## A-VOX SYSTEMS, INC.

28267 RUFFIAN DRIVE, FAIR OAKS RANCH, TEXAS USA 78015-4809

▶ TEL: (210) 695-8242

▶ FAX: (210) 696-5263

▶ CUSTOMER SERVICE (US AND CANADA ONLY) (800) 225-2869

E-MAIL: [info@avoxsystems.com](mailto:info@avoxsystems.com)

WEBSITE: [www.avoxsystems.com](http://www.avoxsystems.com)