



# OPTIMedical

BLOOD GAS & ELECTROLYTE SYSTEMS

*See the Light*  
Technology Driven by  
Optical Fluorescence



**OPTI™ R**  
Compact Blood Gas Analyzer

# Small Footprint. Big Impact.

## RS232/Ethernet/Compact Flash Port (rear)

Allows for simple upload of data to a compact flash card, transfer of data to a data manager, and easy software upgrades.

## Advanced OPTI Fluid Pack

Combines three levels of QC solution in a single pack, reducing operational costs.

## Color Touch Screen

Intuitive icons, step by step prompts, reducing training requirements.



## Heated Measuring Chamber

Allows use in cooled OR and use of chilled samples.

## Automatic Sample Aspiration

With bubble detection - reduces pre-analytic sample errors.

## Bar Code Scanner

Easily scan patient info, operator ID badges, and barcoded syringes.

## Unique Cassette Design



## Programmable Auto QC



## Power, Flexibility & Convenience



# OPTI™ R

## Compact Blood Gas Analyzer

### Low Maintenance & Great Efficiency

OPTI Medical offers a unique, patented optical fluorescent technology that completely eliminates electrodes, minimizing maintenance. This will increase the productivity in your department and significantly reduce your operational cost.

### Cost Effective Solutions

The OPTI R analyzer has a multi-use sensor cassette that leads to low costs per test. The design of the cassette is exclusive to OPTI Medical. Each sensor cassette lasts up to seven days, measures up to 50 patient and 42 QC samples, and is stored at room temperature.

### Optimize Your Workflow

Program the OPTI R to automatically run quality control at your department's convenience. The OPTI R fluid pack contains three separate levels of quality control material and can be stored at room temperature. Auto QC ensures maximum compliance with minimal effort - simply set it and forget it!

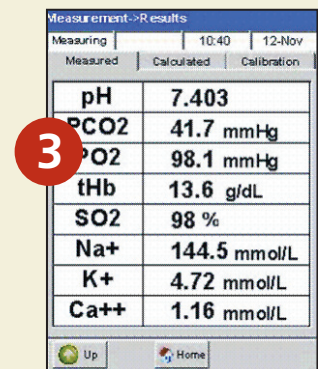
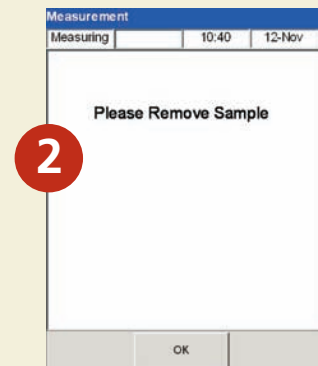
### Obtain Accurate & Fast Data

The OPTI R has a sophisticated, on-board performance monitoring system, the OPTI Quality Monitor (OQM). The OQM system constantly monitors performance and automatically takes necessary corrective actions to ensure the quality of your data.

### Streamlined Data Management

Prism POC data management software integrates, tracks, and trends patient and QC data from multiple OPTI analyzers. With Prism POC, the OPTI R serves as a complete solution for all of your blood gas needs.

## Step by Step Prompts



## Streamlined QC Management



You Deserve a Better Analyzer!

*See the Light*

# OPTI™ R

Compact Blood Gas Analyzer with Optical Fluorescence Technology

To learn more, contact OPTI Medical today at **800.490.6784** or **770.510.4444** or visit our website at: [www.optimedical.com](http://www.optimedical.com)

MEASURED PARAMETERS	RANGE	RESOLUTION	OPERATING PARAMETERS
pH	6.6 - 7.8 pH units	0.001 pH units	Minimum Sample Size: 125 µL
PCO <sub>2</sub>	10 - 200 mmHg	0.1 mmHg	Sample Type Whole Blood, Plasma, or Serum
PO <sub>2</sub>	10 - 700 mmHg	0.1 mmHg	Sample Application: Syringe, Capillary or Comfort Sampler
tHb	5 - 25 g/dL	0.1 g/dL	Sample Input: Automatic Aspiration
SO <sub>2</sub>	60% - 100%	0.1%	Analysis Time (Time to Results): < 60 Seconds
Na <sup>+</sup>	100 - 180 mmol/L	0.01 mmol/L	Ambient Temperature: 10°C - 30°C (50°F - 86°F)
K <sup>+</sup>	0.8 - 10 mmol/L	0.01 mmol/L	Relative Humidity: 5% - 95% (Non-Condensing)
iCa	0.2 - 3.0 mmol/L	0.01 mmol/L	Available Languages: English, German, Spanish, French, Italian, Polish, Chinese
Barometric Pressure	300 - 800 mmHg	0.1 mmHg	

CALCULATED PARAMETERS	INPUT PARAMETERS	SECURITY
Actual Bicarbonate (HCO <sub>3</sub> )	Operator ID (11 Digits)	Vent Mode
Standard Bicarbonate (st.HCO <sub>3</sub> )	Patient ID (15 Digits)	TVol
Base Excess (BE)	Accession Number (12 Digits)	MVVol
Base Excess Extra Cellular Fluid (BEecf)	3 User Defined Fields (9 Digits)	PIP
Base Excess Actual (BEact)	Patient Temperature	Pplat
Buffer Base (BB)	Date of Birth	PS
Standard pH (st.pH)	Patient Sex	PEEP
Hydrogen Ion Conc. (CH <sup>+</sup> )	Hemoglobin Type	CPAP
Total CO <sub>2</sub> (tCO <sub>2</sub> )	Puncture Site	Rate
Oxygen Saturation (SO <sub>2</sub> )	Bypass, Sample Type	Flow Rate
Oxygen Content (O <sub>2</sub> ct)	Total Hemoglobin	I/E ratio
Alveolar-arterial O <sub>2</sub> Conc. (AaDO <sub>2</sub> )	MCHC	Bi Level Pressure
P50	O <sub>2</sub> Mode	RQ
St. Ionized Calcium (pH=7.4)(nCa <sup>++</sup> )	FIO <sub>2</sub>	
Hematocrit (Hct)	P50	

MISCELLANEOUS
Size 124 H x 362 W x 230 D mm (4.7 H x 14.2 W x 14 D in)
Weight: 4.5 kg (10 lbs) without Fluid Pack
Voltage/Frequency: 120 or 240 AC/50-60 Hz
Power Consumption (Max.): 110 VA
Interface: Ethernet, Serial (ASTM or ASCII)
Approvals: CE, UL, IVDD



## OPTIMedical

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