

# OPTI™ CCA-TS

Portable Blood Gas Analyzer

## Accuracy. Speed. Simplicity.

*With the OPTI CCA-TS, obtaining accurate blood gas results is fast, easy and convenient. It's the ideal solution for giving the hospital lab, respiratory therapists, perfusionists, ICU/INICU staff, and other clinicians a flexible solution for performing blood gas tests—on the benchtop or at the bedside.*

- **Patented optical fluorescence technology**—Unique design uses light as a reference, not an electrode, offering inherent reliability.
- **Crucial tests**—Wide range of crucial blood gas and chemistry tests—including total hemoglobin (tHb), hemoglobin oxygen saturation (O<sub>2</sub>), ionized calcium, and glucose.
- **Low maintenance**—Innovative optical fluorescence technology eliminates electrodes and unique sensor construction prevents lipid/protein buildup, virtually eliminating maintenance cost and downtime.
- **Significant cost savings**—Single-use, disposable test cassettes—no standby costs for lab quality results.
- **Simple, intuitive operation**—Automatic sample aspiration and easy-to-use touch screen reduce training requirements—users are up and running quickly.
- **Compliance and QC**—User-definable, automated QC lockouts and audit trails help enforce compliance with your lab standards.
- **Open connectivity**—Integrates with any HIS/LIS.

***"I shouldn't have to hold my breath for blood gas results."***



**OPTI**Medical

*See the Light*

# OPTI™ CCA-TS

Portable Blood Gas Analyzer

Lab accuracy. Unmatched simplicity.

- **Color touch screen**  
Intuitive icons identify functions, reducing training requirements.
- **Virtually maintenance-free**  
No fluids or electrodes to maintain.
- **Automatic sample aspiration** with bubble detection helps reduce sample errors.
- **Single-use test cassettes**  
No standby costs; only pay for the tests you perform.
- **Compact and portable**  
Ideal for near-patient testing.
- **Rechargeable battery**  
Allows blood gas testing when electric service is not available.



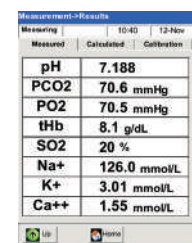
## Easy as 1, 2, 3



Insert cassette



Mix and introduce sample



Read results

### Measured Parameters

Measured Parameters	Range	Resolution
pH	6.6 - 7.8 pH units	0.001 pH units
PCO <sub>2</sub>	10 - 200 mmHg	0.1 mmHg
PO <sub>2</sub>	10 - 700 mmHg	0.1 mmHg
tHb	5 - 25 g/dL	0.1 g/dL
SO <sub>2</sub>	60 % - 100 %	0.1 %
Na+	100 - 180 mmol/L	0.1 mmol/L
K+	0.8 - 10 mmol/L	0.01 mmol/L
iCa	0.2 - 3.0 mmol/L	0.01 mmol/L
Cl-	50 - 160 mmol/L	0.1 mmol/L
Glucose	1.7 - 22.2 mmol/L (30 - 400 mg/dL)	0.1 mmol/L (0.1 mg/dL)
BUN (Urea)	2.8 - 112.0 mg/dL (1 - 40 mmol/L)	0.1 mg/dL (0.01 mmol/L)
Barometric Pressure	300 - 800 mmHg	0.1 mmHg

### Calculated Parameters

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)	MVol
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+)	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++)	FiO <sub>2</sub>	
Hematocrit (Hct)	P50	

### Input Parameters

### Operating Parameters

Minimum Sample Size: **125 µL**  
 Sample Type: **Whole Blood, Plasma, or Serum**  
 Sample Application: **Syringe, Capillary or ComfortSampler**  
 Sample Input: **Automatic Aspiration**  
 Analysis Time (Time to Results): **< 120 Seconds**  
 Ambient Temperature: **10°C - 32°C (50°F - 90°F)**  
 Relative Humidity: **5 % - 95 % (Non-Condensing)**  
 Available Languages: **English, Spanish, French, Italian, German, Japanese, Chinese**

### Security

Password: **Password Protected Analyzer Setup, Operation and Delete Functions**  
 QC Lockout: **User Definable QC Lockout Functions**  
 Operator IDs: **Storage for 300 Operator IDs (11 Digits) and Associated PIN (4 Digits)**

### Miscellaneous

Size: **124 H x 362 W x 230 D mm (4.7 H x 14.2 W x 9.1 D in)**  
 Weight: **5.5 kg (12 lbs) with rechargeable Battery 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**

To learn more, contact OPTI Medical today at 800 490-6784 or visit [www.optimedical.com](http://www.optimedical.com).

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