

*See the Light*  
Technology Driven by  
Optical Fluorescence



**OPTI CCA-TS2**  
Portable Blood Gas Analyzer  
Simple • Accurate • Reliable

# OPTI<sup>®</sup> CCA-TS2

## Upgradable, Portable Blood Gas & Electrolyte Analyzer with Optical Fluorescence Technology

### Innovative Optical Technology

The OPTI CCA-TS2 utilizing the latest Optical Fluorescence Technology. This unique patented technology does not use traditional electrodes or contact points, which eliminates the need for costly electrode maintenance. It uses maintenance free optical sensors.

### Accurate Results

Reduce pre-analytical errors with Automatic Sample Aspiration, bubble and clot detection and step by step picture instructions on the High resolution large colorful touch screen.

### Significant Cost Savings

The OPTI CCA-TS2 analyzer provides lab quality results with zero standby cost. The single use consumable. Stored at room temperature, is only used during a measurement and safety locks waste inside.

### Simplify Compliance

Compliance and audit trails are made easy with QC Lockouts, maintenance log and multiple levels security. Save time and reduce errors by using the built in barcode scanner to quicker enter user ID and patient IDs.

### Electrolyte Analysis (Separately)

Only electrolyte parameters (Na<sup>+</sup>, K<sup>+</sup>, Ca<sup>++</sup> & Cl<sup>-</sup>) can be also performed separately with pH & calculated 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 <sup>+</sup>	100 - 180 mmol/L	0.1 mmol/L
K <sup>+</sup>	0.8 - 10 mmol/L	0.01mmol/L
Ca <sup>++</sup>	0.2 - 3.0 mmol/L	0.01mmol/L
Cl <sup>-</sup>	50 - 160 mmol/L	0.1mmol/L
Glucose	1.7 - 22.2 mmol/L (30 - 400 mg/dL)	0.1mmol/L (0.1 mg/dL)
Lactate	0.3 - 17.5 mmol/L (2.7-157.7 mg/dL)	0.01 mmol/L (0.1 mg/dL)
BUN (Urea)	2.8 - 112.0 mg/dL (1 - 40 mmol/L)	0.1mg/dL (0.01 mmol/L)
Barometric Pressure	300 - 800 mmHg	0.1 mmHg

### CALCULATED PARAMETERS

Actual Bicarbonate (HCO<sub>3</sub><sup>-</sup>)  
Standard Bicarbonate (st.HCO<sub>3</sub><sup>-</sup>)  
Base Excess (BE)  
Base Excess Extra Cellular Fluid (BEecf)  
Base Excess Actual (BEact)  
Buffer Base (BB)  
Standard pH (st.pH)  
Hydrogen Ion Conc. (cH<sup>+</sup>)  
Total CO<sub>2</sub> (tCO<sub>2</sub>)  
Oxygen Saturation (SO<sub>2</sub>)  
Oxygen Content (O<sub>2</sub> ct)  
Alveolar-arterial O<sub>2</sub> Conc. (AaDO<sub>2</sub>)  
P50  
St. Ionized Calcium (pH=7.4)(nCa<sup>++</sup>)  
Hematocrit (Hct)  
Anion Gap

### INPUT PARAMETERS

Operator ID  
Patient ID  
Accession Number  
Date of Birth  
Sex  
Temperature  
Medical Record Number  
Account Number  
Test ID  
Patient Name  
Age  
Attending Physician  
Patient Location  
Sample Collection Time  
Sample Type  
Puncture Site  
Allen's Test  
tHb Type  
O2 Mode  
Vent Mode  
Pplat  
Mvol  
PIP  
Litre Flow  
Tvol  
PS  
PEEP  
Rate  
CPAP  
FIO<sub>2</sub>  
MCHC  
RQ  
P50  
Bilevel Pressure  
I/E Ratio  
Comment field

### Wide Operating Temperature

The OPTI CCA-TS2 analyzer has a measuring chamber heated to 37°C. This allows for a wide operating temperature to meet the needs of colder environments such as the operating room.

### Comprehensive Test Menu

To help meet exact testing needs, the OPTI CCA-TS2 has a variety of cassettes configuration available. Each cassette comes individually wrapped in cartons of 25 tests, reducing the potential for consumable waste.

### Advance Communication

The OPTI CCA-TS2 analyzer now features a standard POCT 1 interface for bi-direction communication and can be interfaced to any LIS/HIS using the Ethernet.

### Rechargeable Battery, Thermal Printer & Cassette Shelf Life

Longer Lasting Rechargeable Battery Backup of upto 8 hours. Allows blood gas testing when electric service is not available. Also it has built in Fast Load Thermal Printer and Long Cassette Shelf Life having 6-12 months from the date of manufacture.

### Quality Control

OPTI provides tri levels Liquid Quality Controls and Electronic QC as well to check the performance of the analyzer on regular and as and when required basis.

### OPERATING PARAMETERS

Minimum Sample Size: 125 µL, 60µL for B-60 cassette  
Sample Type: Whole Blood, Plasma, or Serum  
Sample Application: Syringe, Capillary or Comfort Sampler™  
Sample Input: Automatic Aspiration  
Analysis Time (Time to Results): < 120 Seconds  
Ambient Temperature: 10° C - 30° C (50°F - 86°F)  
Relative Humidity: 5% - 95% (Non-Condensing)  
Available Languages: English & 10 others

### DATA BASE

Patient Data: 500 Records  
QC Data: 70 Records Per Level  
SRC Data: 105 Records per Level

### SECURITY

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

### MISCELLANEOUS

Power Consumption (Max.): 110 VA  
Interface: ASTM, ASCII, and POCT1 protocols  
(Ethernet and USB Serial)  
Ports: USB Type A  
Approvals: CE, UL, IVDD, FDA 510k cleared  
Size: 4.7 H x 14.2 W x 9.1 D in (12.0 x 36.2 x 23.0 cm)  
Weight: 4.3 kg (9.6 lbs) with rechargeable Battery Pack  
Voltage/Frequency: 120 or 240 AC/50-60 Hz



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