

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/ICU 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 (O₂), 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."



OPTIMedical

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.



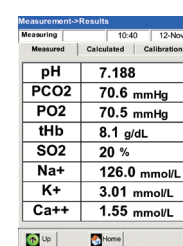
Easy as 1, 2, 3



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 ₂	10 - 200 mmHg	0.1 mmHg
PO ₂	10 - 700 mmHg	0.1 mmHg
tHb	5 - 25 g/dL	0.1 g/dL
SO ₂	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 ₃)
Standard Bicarbonate (st.HCO ₃)
Base Excess (BE)
Base Excess Extra Cellular Fluid (BE _{ecf})
Base Excess Actual (BE _{act})
Buffer Base (BB)
Standard pH (st.pH)
Hydrogen Ion Conc. (cH ⁺)
Total CO ₂ (tCO ₂)
Oxygen Saturation (SO ₂)
Oxygen Content (O ₂ ct)
Alveolar-arterial O ₂ Conc. (AaDO ₂)
P50
St. Ionized Calcium (pH=7.4)(nCa ⁺⁺)
Hematocrit (Hct)

Input Parameters

Operator ID (11 Digits)	Vent Mode
Patient ID (15 Digits)	TVol
Accession Number (12 Digits)	MVol
3 User Defined Fields (9 Digits)	PIP
Patient Temperature	Pplat
Date of Birth	PS
Patient Sex	PEEP
Hemoglobin Type	CPAP
Puncture Site	Rate
Bypass, Sample Type	Flow Rate
Total Hemoglobin	I/E ratio
MCHC	Bi Level Pressure
O ₂ Mode	RQ
FIO ₂	
P50	

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.

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