



SENSA[®]CORE

MEDICAL INSTRUMENTATION PVT. LTD.

Profile & Products

Blood Gas Analyzers
Electrolyte Analyzers
OEM/ODM Analyzers

Glucose Meters
Hemoglobin Meters
Lactate Meters

The Manufacturing Company

2026 - 2027

IVD

ISO
9001

ISO
13485

ABOUT US

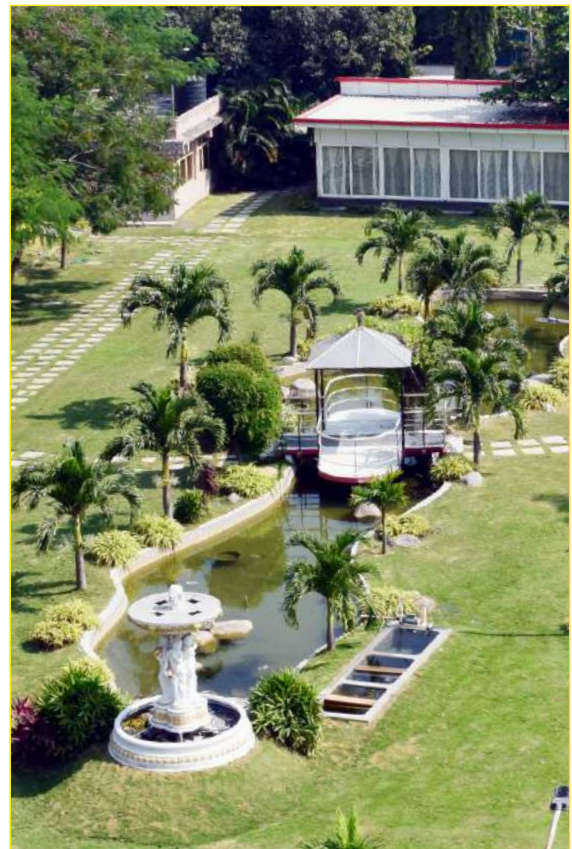
HOW IT STARTED



We are India's fastest growing In-vitro Diagnostic company manufacturing and delivering a wide range of analytical and diagnostic analyzers, Point of Care Devices, Reagents & Consumables that are at par with global standards.

We manufacture products with state of the art technology which is supplied to a large number of hospitals, pathological labs and patients ensuring the highest quality and reliability. On the other hand, we have a strong research and development team with the vision of delivering the best of the best.

Furthermore, we are equipped with a highly experienced contract manufacturing division that designs, develops and manufactures customized products with highly advanced technology for many leading health care and diagnostic brands.



OUR CULTURE

WE LIKE TO SPEND TIME AND HAVE FUN TOGETHER

We are a responsible company complying with all statutory requirements by following the global standards. Our well-framed buyer-friendly policies ensure hassle-free, mutually beneficial long term partnership with our valuable channel partner/s. Coming to the work culture we have never left any stone unturned in rendering positive vibes and friendly environment to the employees be it a grassroots or top-level management bringing every individual together on a common platform and inspiring them to deliver their level best.



OUR MISSION |

Sensa Core Medical Instrumentation intends to become an Innovative World Class Medical Diagnostics Instrument Manufacturer. Sensa Core's mission is to provide Hospitals, Pathological Laboratories and OEM clients and Patients with Advanced Analytical and Diagnostics Analyzers and Hand-Held Devices, which would improve Patient Outcomes and Reduce the Cost of Medical and Health care Services.

At Sensa Core we ensure that we deliver products and services of the Highest Quality and ensure our Products are User-Friendly, Low Maintenance, Easy to Operate and Easy to Afford.

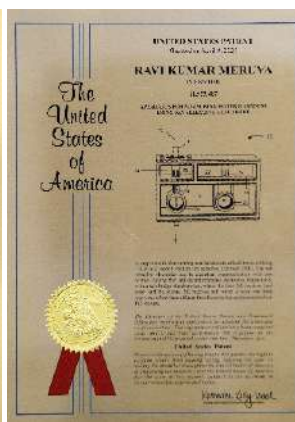
OUR TECHNOLOGY

WE EXCEL WITH OUR TECHNOLOGY

Sensa Core is a Research & Development oriented company where we ensure the manufacturing of a diversified portfolio of products that are equipped with modern technology. We are a team of skilled and trained professionals to support and deliver highly sophisticated medical products to all our clients and customers. With an in-house team of specialists and R & D scientists, we always assure you delivering the best.

- ▶ Amperometry (Biosensor & Membrane)
- ▶ Ion Selective Electrode (Direct ISE & Indirect ISE)
- ▶ Reflectance Photometry (Infra Red, Visible & UV)
- ▶ Absorbance Spectroscopy (Visible & UV)
- ▶ Impedance / Conductance
- ▶ Ultra Sound
- ▶ Radio Frequency (RFID)
- ▶ Microfluidics / Electro Mechanical (Peristaltic, Valve & Cassette)

Sensa Core is a pure tech driven company where it has successfully demonstrated and owns multiple unique technologies which have been embedded in the product/s which comprises of some Intellectual Property patents as well.

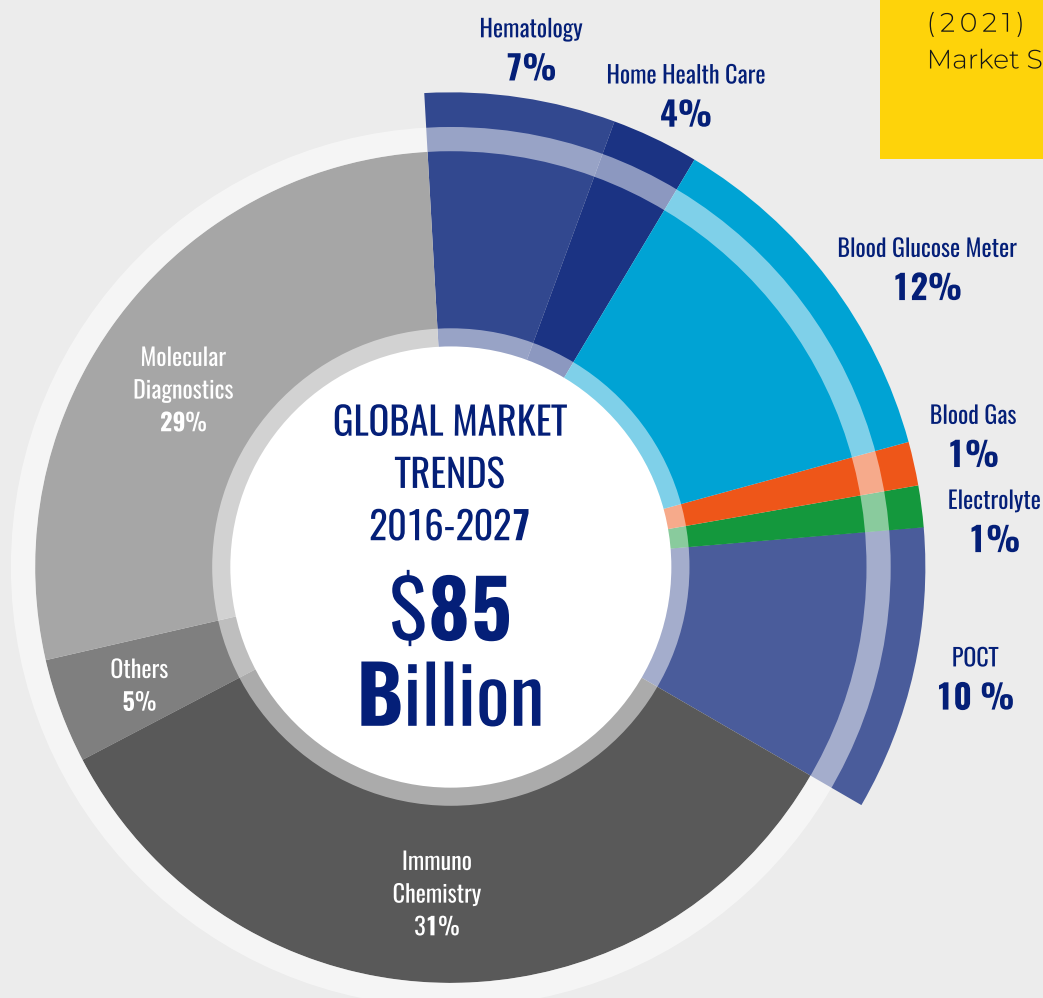


OUR MARKET

Market Overview - IVD

SOURCE:

Frost and Sullivan, Analysis of the global In Vitro Diagnostics Market (2014), Evaluate Medtech (2017), Grand View Research Report (2021) & Multiple Market Study Reports.



CURRENT BUSINESS SEGMENTS

	Commercialized
Electrolyte Analyzer (ISE)	2010
Blood Glucose Meter (POCT)	2014
Blood Gas Analyzer (ABGEM)	2017
Lactate Meter (POCT)	2019
Hemoglobin Meter (POCT)	2020

FUTURE BUSINESS SEGMENTS

	Proposed Launch
S-CORE Health Monitor	2026 Q1
HbA1C Analyzer (POCT)	2026 Q2
Cholesterol Meter (POCT)	2026 Q3
Hematology Analyzer	2026 Q4
Biochemistry Meter (POCT)	2027 Q1
Immunochemistry Analyzer	2027 Q2

OUR DIFFERENCE

We strive to improve care and outcomes through inspired and world-leading healthcare solutions.

Advanced Research and Development

Sensa Core believes in the product, quality, and reliability for the benefit of human life. We develop the products in the most innovative way to assist the clinicians, doctors & laboratories to improve the product's usability and reliability. We design & develop innovative medical devices that possess the ultra-modern technology that enables an individual to maintain pace with the advanced methodologies & technologies. Our research team is comprised of personnel having many years of experience in all phases and processes for conducting clinical research.

Manufacturing and Operations

Sensa Core is concerned with Operations and manufacturing to a broader aspect. We manufacture, assemble, and test a wide range of products in our facilities in India. These manufacturing facilities are managed by our highly sophisticated manufacturing staff with the state of the art technology and ultra-modern plant that designed to meet all the standards of the international medical device to become globally competitive across the recognized dimensions of quality, cost, delivery, flexibility, product innovation, and customer experience.

Quality and Regulatory

We are committed to develop and manufacture products that meet the global standards of statutory and regulatory requirements. In the healthcare industry, we aspire to meet stringent standards and intend to improve customer satisfaction by manufacturing enhanced quality products. We have a team of experts who work on the continual improvement of QMS, enhancing manufacturing processes by imparting periodical training to employees to meet all possible international standards in manufacturing facilities.

OUR CEO & DIRECTORS |



Dr. RAVI KUMAR MERUVA Ph.D

Founder & C.E.O

Promoter and the inventor of multiple technologies which have powered Sensa Core's products. Carrying over 35+ years of Research and Development experience in the field of electrochemical Sensors and Analytical Instrumentation. Holding Ph.D. from University of Michigan, Ann Arbor, USA and Master of Science from Indian Institute of Technology, Chennai.



Mr. SRIRAMA KUMAR KASI

Managing Director

Carrying over 18+ years of Research & Development experience in the field of Embedded Systems and product development (IVD). Holding Masters in Embedded Systems with expertise in handling all aspects of product development from basic concept to the final product.



Mr. NAGARAJU MERUVA

Executive Director

Holding 32+ years of experience in administration with exposure to varied industries of Public Sector, Deemed University, and MNC. Holding Masters in Business Administration with exposure to diverse business operations.

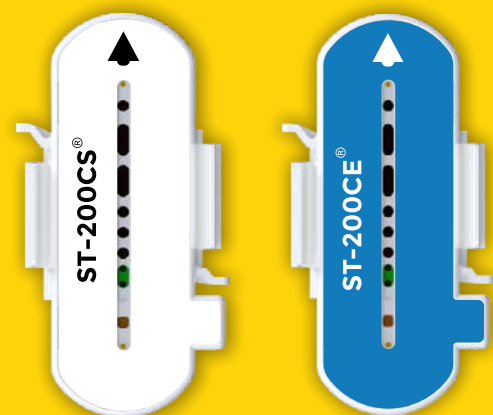
BLOOD GAS ANALYZER

ARTERIAL BLOOD GAS ELECTROLYTE ANALYZERS

Sensa Core offers a wide range of blood gas analyzers that are highly advanced with power packed features and are exclusively designed to meet the requirements of modern laboratories efficiently and effectively. With 16 years of rich experience and strong research and development team, we have emerged as a top player in manufacturing the finest blood gas analyzers of the new age with state of the art technology that delivers unparalleled analytical performance. The smart technology and unique features help in measuring a large number of parameters which ensures a high level of performance, accuracy and consistency that we can rely on. Moreover, the cost-effectiveness of the analyzers makes us stand ahead with the rest of the players and it has also helped us in becoming the trusted partner of a large number of hospitals, pathological laboratories, OEM and ODM clients as well as the distributors of more than 85+ countries around the globe. Overall the compact design, patented features, and advanced technology makes it handle the workload of a critical care unit easily. This unit has an easy to use high definition colour screen, plug and play connectivity, barcode scanner and the onboard printer has given it the title of the most comprehensive analyzer of the generation.



Sensor Cassettes



ST-200CS[®]

Blood Gas Analyzer



Sensor Cassette

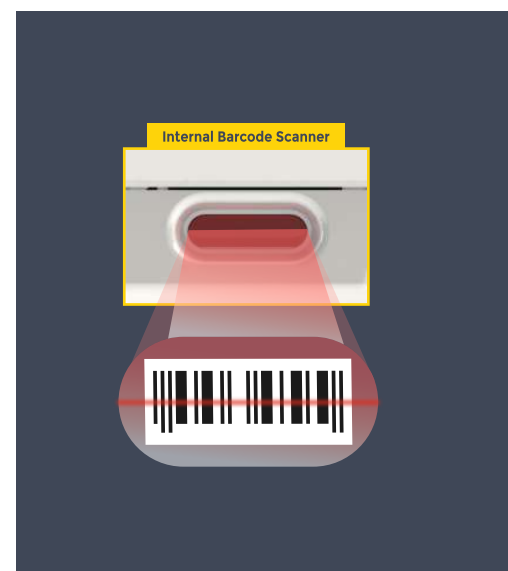
Sensa Core offers a wide range of blood gas analyzers that are highly advanced with power pack features that are exclusively designed to meet the requirements of modern laboratories efficiently and effectively.

Advancedly organized for fast and reliable blood gas testing

SPECIFICATIONS

Principle	: Direct measurement with ion selective electrode-ISE (Electrolytes), Impedance (Hct) and Amperometry (pO ₂ , Glu, Lac) using thick film technology.
Sample volume	: $\approx 160\mu\text{L}$
Reading Time	: ≈ 110 Seconds.
Parameters	: This functionality allows the change of analytes.
Sample Type	: Whole Blood, Serum, Plasma and QC.
Conditioning	: Storage 5°C to 40°C (41 °F to 104 °F) and relative humidity 10-90% Operating 15°C to 35°C (59 °F to 95 °F) and relative humidity 10-90%
Display	: 10 inch high definition LCD with capacitive touch.
Print	: 3 inch thermal printer.
Input voltage	: 100-240V AC, 50/60Hz, 1.4A
Dimensions	: 8.7" W x 16.6" H x 14.6" D.
Weight	: 6.9 Kg (without pack).
OS	: Android.
Battery	: Optional (2 hours in standby mode).
Storage	: 1,00,000 Samples.

MULTI-USE SENSOR CASSETTE VERSIONS	
Cassette Type	Available Parameters
ABGEM	pH, pCO ₂ , pO ₂ , Hct, Na ⁺ , K ⁺ , iCa ⁺⁺ , Cl ⁻ , Glu, Lac
ABGE	pH, pCO ₂ , pO ₂ , Hct, Na ⁺ , K ⁺ , iCa ⁺⁺ , Cl ⁻
BE6	pH, HCO ₃ ⁻ , Na ⁺ , K ⁺ , iCa ⁺⁺ , Cl ⁻
E5	Na ⁺ , K ⁺ , iCa ⁺⁺ , pH, Cl ⁻
E6	Na ⁺ , K ⁺ , iCa ⁺⁺ , Li ⁺ , pH, Cl ⁻



FEATURES

- › Aspirate 1 sample and acquire 32 different results.

Blood gas : pH, pCO₂, pO₂.

Metabolites : Glu, Lac.

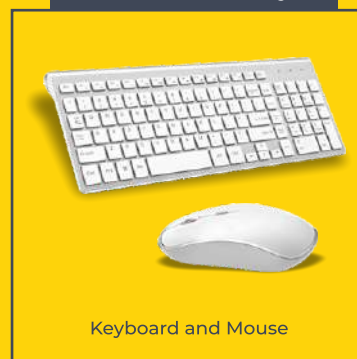
Hematocrit : Hct.

Electrolytes : Na⁺, K⁺, iCa⁺⁺, pH, Cl⁻.

Calculated Parameters : Hb, HCO₃⁻(p), BE, BE-B, BE-ECF, TCO₂(p), AG(Na), AG(K), SO₂, O₂Ct, HCO₃⁻(std), nCa, TCa, pO₂%, A, AaDO₂, a/A, mOsm, pH(TC), pCO₂(TC), pO₂(TC) & pO₂/FIO₂.

- › Multi-use all-in-one disposable microelectrode sensor cassette system using thick film technology for whole blood gas, metabolites, hematocrit & electrolytes testing.
- › Room temperature stable sensors and reagents (no refrigeration needed while shipping and storage).
- › Self-cleaning automatic sample probe prevents contamination between samples.
- › Levey-Jennings chart for NABL and seamless integration to LIS (Lab information system).
- › Numeric & alpha numeric input option with 15 digits Patient ID & Patient Name.
- › The results can be recalled by Sample List, Date, Patient ID, Patient Name & Department.
- › Unlimited User Accounts and Login facility by their unique User ID & Password.
- › External mouse & keyboard interfacing option.
- › Reagent consumption & sample count monitoring facility.
- › 10 inch high definition LCD with capacitive touch screen.
- › Single Reagent pack for all cassette versions.
- › Internal barcode scanner to enter Patient ID & for setting QC Ranges automatically.
- › Maximum 1,00,000 samples data storage capacity.
- › Reference ranges with results on display and print.
- › One touch calibration for new reagent pack.
- › One USB(2.0) & One RS232 output ports.
- › Default and Alternate units of measurement.
- › Used for near patient testing use only.
- › Excellent precision and reliability.
- › Extremely low cost per test.
- › Automatic Calibration.
- › Optional battery backup.
- › Multilingual support.
- › No maintenance.
- › Plug and Play.

External Interfacing



Automatic Sample Probe



MEASUREMENT RANGE			
Type	Parameter	Units	Range of indication
Blood Gas	pH		6.5 - 8.0
	pCO ₂	mmHg	5 - 250
		kPa	0.7 - 33.3
	pO ₂	mmHg	5 - 750
		kPa	0.7 - 100
Hematocrit	Hct	%	10 - 75
		L/L	0.10 - 0.75
Metabolites	Glu	mg/dL	20 - 700
		mmol/L	1.1 - 38.9
	Lac	mmol/L	0.30 - 20.00
		mg/dL	2.7 - 180.2
Electrolytes	Na ⁺	mmol/L, mEq/L	20 - 200
	K ⁺	mmol/L, mEq/L	0.2 - 40
	Cl ⁻	mmol/L, mEq/L	25 - 200
	iCa ⁺⁺	mmol/L	0.1 - 6.0
		mEq/L	0.2 - 12.0
		mg/dL	0.4 - 24.0

ST-200CE[®]

Electrolyte Analyzer



Sensor Cassette

Sensa Core's ST-200CE Electrolyte Analyzer is a completely automated, microprocessor controlled electrolyte system that uses current ISE technology to make electrolyte measurements with innovative thick-film technology. The ST-200CE product measures Sodium, Potassium, Ionized Calcium, Bicarbonate, pH and Chloride in Whole blood, serum, plasma, CSF.

Revolutionize Electrolytes Testing with Innovative Multi-Use Sensor Cassette

SPECIFICATIONS

Principle	: Direct measurement with ion selective electrode (ISE) using thick film technology.
Sample volume	: $\approx 160\mu\text{L}$
Reading Time	: ≈ 85 Seconds.
Parameters	: This functionality allows the change of analytes.
Sample Type	: Whole Blood, Serum, Plasma, CSF and QC.
Conditioning	: Storage 5°C to 40°C (41°F to 104°F) and relative humidity 10-90% Operating 15°C to 35°C (59°F to 95°F) and relative humidity 10-90%
Display	: 10 inch high definition LCD with capacitive touch.
Print	: 3 inch thermal printer.
Input voltage	: 100-240V AC, 50/60Hz, 1.4A
Dimensions	: 8.7" W x 16.6" H x 14.6" D.
Weight	: 6.9 Kg (without pack).
OS	: Android.
Battery	: Optional (2 hours in standby mode).
Storage	: 1,00,000 Samples.

MULTI-USE SENSOR CASSETTE VERSIONS	
Cassette Type	Available Parameters
BE6	pH, HCO_3^- , Na^+ , K^+ , iCa^{++} , Cl^-
E5	Na^+ , K^+ , iCa^{++} , pH, Cl^-
E6	Na^+ , K^+ , iCa^{++} , Li^+ , pH, Cl^-

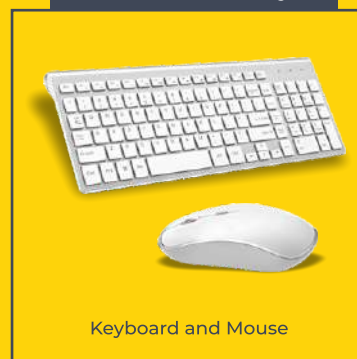


Sensor Cassette

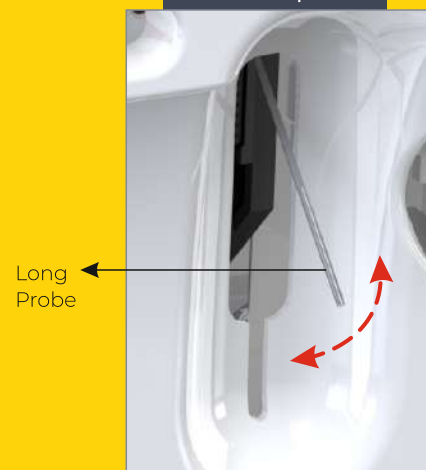
FEATURES

- Aspirate 1 sample and acquire 14 different results.
Electrolytes :
 Na^+ , K^+ , iCa^{++} , pH, HCO_3^- , Cl^- .
Calculated Parameters :
nCa, TCa, pCO₂, TCO₂, BE, BE-ECF, AG(Na), AG(K).
- Multi-use all-in-one disposable microelectrode sensor cassette system using thick film technology.
- Long and automatic sample probe.
- Levey-Jennings chart for NABL and seamless integration to LIS (Lab information system).
- Numeric & alpha numeric input option with 15 digits Patient ID & Patient Name.
- The results can be recalled by Sample List, Date, Patient ID, Patient Name & Department.
- Unlimited User Accounts and Login facility by their unique User ID & Password.
- External mouse & keyboard interfacing option.
- Reagent consumption & sample count monitoring facility.
- 10 inch high definition LCD with capacitive touch screen.
- Single Reagent pack for all cassettes versions.
- Internal barcode scanner to enter Patient ID & for setting QC Ranges automatically.
- Maximum 1,00,000 samples data storage capacity.
- Reference ranges with results on display and print.
- One touch calibration for new reagent pack.
- One USB(2.0) & One RS232 output ports.
- Default and Alternate units of measurement.
- Used for clinical laboratory testing use only.
- Excellent precision and reliability.
- Extremely low cost per test.
- Automatic Calibration.
- Optional battery backup.
- Multilingual support & much more.

External Interfacing



Automatic Sample Probe



MEASUREMENT RANGE		
Parameter	Units	Range of indication
Na ⁺	mmol/L, mEq/L	20 - 200
K ⁺	mmol/L, mEq/L	0.2 - 40
Cl ⁻	mmol/L, mEq/L	25 - 200
iCa ⁺⁺	mmol/L	0.1 - 6.0
	mEq/L	0.2 - 12.0
	mg/dL	0.4 - 24.0
pH		6.5 - 8.0
HCO ₃ ⁻	mmol/L, mEq/L	5 - 50

ST-200SC[®]

Blood Gas Analyzer



Sensa Core offers a wide range of blood gas analyzers that are highly advanced with power pack features that are exclusively designed to meet the requirements of modern laboratories efficiently and effectively.

SPECIFICATIONS

Principle	: Direct measurement with ion selective electrode-ISE (Electrolytes), Impedence (Hct) and Amperometry (pO ₂ , Glu, Lac) using thick film technology.
Sample volume	: ≈ 200µL
Reading time	: ≈ 110 Seconds.
Parameters	: This functionality allows the change of analytes.
Sample Type	: Whole Blood, Serum, Plasma and QC.
Conditioning	: Storage 5 °C to 40 °C (41 °F to 104 °F) and relative humidity 10-90% Operating 15 °C to 35 °C (59 °F to 95 °F) and relative humidity 10-90%
Display	: 10 inch high definition LCD with capacitive touch.
Print	: 3 inch thermal printer.
Input voltage	: 100-240V AC, 50/60Hz, 1.4A
Dimensions	: 8.7" W x 16.6" H x 14.6" D
Weight	: 6.9 Kg (without pack).
OS	: Android.
Battery	: Optional (2 hours in standby mode).
Storage	: 1,00,000 Samples.

PARAMETER COMBINATIONS											
ABGEM	ABGM	ABGE	ABG	ELECTROLYTE							
BD	BD	BD	BD	BD	BD	BD	BD	BD	BD	BD	BD
K ⁺	K ⁺	K ⁺	B	K ⁺	K ⁺	K ⁺	K ⁺	K ⁺	K ⁺	K ⁺	K ⁺
Na ⁺	Na ⁺	Na ⁺	B	Na ⁺	Na ⁺	Na ⁺	Na ⁺	Na ⁺	Na ⁺	Na ⁺	Na ⁺
iCa ⁺⁺	iCa ⁺⁺	iCa ⁺⁺	B	B	iCa ⁺⁺	iCa ⁺⁺	iCa ⁺⁺	iCa ⁺⁺	iCa ⁺⁺	B	B
pH	pH	pH	pH	pH	pH	B	B	B	B	B	B
pCO ₂	pCO ₂	pCO ₂	pCO ₂	pCO ₂	pCO ₂	pH	pH	B	B	B	B
Cl ⁻	Cl ⁻	Cl ⁻	B	Cl ⁻	Cl ⁻	Cl ⁻	B	Cl ⁻	B	Cl ⁻	B
pO ₂	pO ₂	pO ₂	pO ₂	OGLH B	OGLH B	OGLH B	OGLH B	OGLH B	OGLH B	OGLH B	OGLH B
Glu	B	B	B								
Lac	Lac	B	B								
Hct	Hct	Hct	Hct								
1	2	3	4	5	6	7	8	9	10	11	12

FEATURES

- Aspirate 1 sample and acquire 32 different results.
Blood gas : pH, pCO₂, pO₂.
Metabolites : Glu, Lac.
Hematocrit : Hct.
Electrolytes : Na⁺, K⁺, iCa⁺⁺, pH, Cl⁻.
Calculated Parameters : Hb, HCO₃⁻(p), BE, BE-B, BE-ECF, TCO₂(p), AG(Na), AG(K), SO₂, O₂Ct, HCO₃⁻(std), nCa, TCa, pO₂%, A, AaDO₂, a/A, mOsm, pH(TC), pCO₂(TC), pO₂(TC) & pO₂/FIO₂.
- Thick film technology for Glu, Lac, pO₂, Hct parameters.
- Room temperature stable electrodes and reagents (no refrigeration needed while shipping and storage).
- Self-cleaning automatic sample probe prevents contamination between samples.
- Levey-Jennings chart for NABL and seamless integration to LIS (Lab information system).
- Numeric & alpha numeric input option with 15 digits Patient ID & Patient Name.
- The results can be recalled by Sample List, Date, Patient ID, Patient Name & Department.
- Unlimited User Accounts and Login facility by their unique User ID & Password.
- Internal barcode scanner to enter patient ID and for setting QC ranges automatically.
- External mouse & keyboard interfacing option.
- Reagent consumption & sample count monitoring facility.
- 10 inch high definition LCD with capacitive touch screen.
- Single Reagent pack for all 12 types of parameter combinations.
- Maximum 1,00,000 samples data storage capacity.
- Reference ranges with results on display and print.
- One touch calibration for new reagent pack.
- Integrated parameter conversion functionality.
- One USB(2.0) & One RS232 output ports.
- Default and Alternate units of measurement.
- Used for near patient testing use only.
- Excellent precision and reliability.
- Extremely low cost per test.
- Automatic Calibration.
- Optional battery backup.
- Multilingual support.
- No Maintenance
- Plug and Play

External Interfacing



Keyboard and Mouse



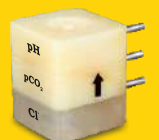
Bubble Detector



pO₂ / Glu / Lac / Hct Block



K⁺ / Na⁺ / iCa⁺⁺ Block



pH / pCO₂ / Cl Block

MEASUREMENT RANGE			
Type	Parameter	Units	Range of indication
Blood Gas	pH		6.5 - 8.0
	pCO ₂	mmHg	5 - 250
		kPa	0.7 - 33.3
	pO ₂	mmHg	5 - 750
		kPa	0.7 - 100
Hematocrit	Hct	%	10 - 75
		L/L	0.10 - 0.75
Metabolites	Glu	mg/dL	20 - 700
		mmol/L	1.1 - 38.9
	Lac	mmol/L	0.30 - 20.00
		mg/dL	2.7 - 180.2
Electrolytes	Na ⁺	mmol/L, mEq/L	20 - 200
	K ⁺	mmol/L, mEq/L	0.2 - 40
	Cl ⁻	mmol/L, mEq/L	25 - 200
	iCa ⁺⁺	mmol/L	0.1 - 6.0
		mEq/L	0.2 - 12.0
		mg/dL	0.4 - 24.0



ST-200SE[®]

Electrolyte Analyzer



Sensa Core's ST-200SE Electrolyte Analyzer is a completely automated, microprocessor controlled electrolyte system that uses current ISE technology to make electrolyte measurements. The ST-200SE product measures Sodium, Potassium, Ionized Calcium, Bicarbonate, pH, Chloride and Lithium in Whole blood, serum, plasma, CSF and also measures Sodium, Potassium & Chloride in diluted urine.

SPECIFICATIONS

Principle	: Direct measurement with ion selective electrode (ISE).
Sample volume	: $\cong 130\mu\text{L}$
Reading time	: $\cong 80$ Seconds.
Parameters	: This functionality allows the change of analytes.
Sample Type	: Whole Blood, Serum, Plasma, CSF, Diluted Urine and QC.
Conditioning	: Storage 5°C to 40°C (41°F to 104°F) and relative humidity 10-90% Operating 15°C to 35°C (59°F to 95°F) and relative humidity 10-90%
Display	: 10 inch high definition LCD with capacitive touch.
Print	: 3 inch thermal printer.
Input voltage	: 100-240V AC, 50/60Hz, 1.4A
Dimensions	: 8.7" W x 16.6" H x 14.6" D
Weight	: 6.9 Kg (without pack).
OS	: Android.
Battery	: Optional (2 hours in standby mode).
Storage	: 1,00,000 Samples.

HCO_3^-		ELECTROLYTE									
BD	BD	BD	BD	BD	BD	BD	BD	BD	BD	BD	BD
K ⁺	K ⁺	K ⁺	K ⁺	K ⁺	K ⁺	K ⁺	K ⁺	K ⁺	K ⁺	K ⁺	K ⁺
Na ⁺	Na ⁺	Na ⁺	Na ⁺	Na ⁺	Na ⁺	Na ⁺	Na ⁺	Na ⁺	Na ⁺	Na ⁺	Na ⁺
B	iCa ⁺⁺	iCa ⁺⁺	iCa ⁺⁺	iCa ⁺⁺	iCa ⁺⁺	iCa ⁺⁺	iCa ⁺⁺	iCa ⁺⁺	iCa ⁺⁺	B	B
pH	pH	Li ⁺	Li ⁺	B	Li ⁺	pH	Li ⁺	B	B	B	B
HCO_3^-	HCO_3^-	pH	B	pH	pH	B	B	B	B	B	B
Cl ⁻	Cl ⁻	Cl ⁻	Cl ⁻	Cl ⁻	B	B	B	Cl ⁻	B	Cl ⁻	B
1	2	3	4	5	6	7	8	9	10	11	12
Parameter Combinations											

FEATURES

- Aspirate 1 sample and acquire 14 different results.

Electrolytes :

Na^+ , K^+ , iCa^{++} , Li^+ , pH, HCO_3^- , Cl^- .

Calculated Parameters :

nCa, TCa, pCO₂, TCO₂, BE, BE-ECF, AG(Na), AG(K).

- Long and automatic sample probe.
- Levey-Jennings chart for NABL and seamless integration to LIS (Lab information system).
- Numeric & Alpha numeric input option with 15 digits Patient ID & Patient Name.
- The results can be recalled by Sample List, Date, Patient ID, Patient Name & Department.
- Unlimited User Accounts and Login facility by their unique User ID & Password.
- Internal barcode scanner to enter Patient ID & for setting QC Ranges automatically.
- Reagent consumption & sample count monitoring facility.
- 10 inch high definition LCD with capacitive touch screen.
- Single Reagent pack for all 12 types of parameter combinations.
- External mouse & keyboard interfacing option.
- Maximum 1,00,000 samples data storage capacity.
- Reference ranges with results on display and print.
- One touch calibration for new reagent pack.
- One USB(2.0) & One RS232 output ports.
- Default and Alternate units of measurement.
- Used for clinical laboratory testing use only.
- Excellent precision and reliability.
- Extremely low cost per test.
- Automatic Calibration.
- Optional battery backup.
- Multilingual support & much more.

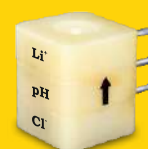
External Interfacing



Keyboard and Mouse



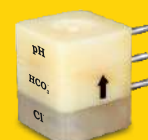
Bubble Detector



Li⁺ / pH / Cl Block



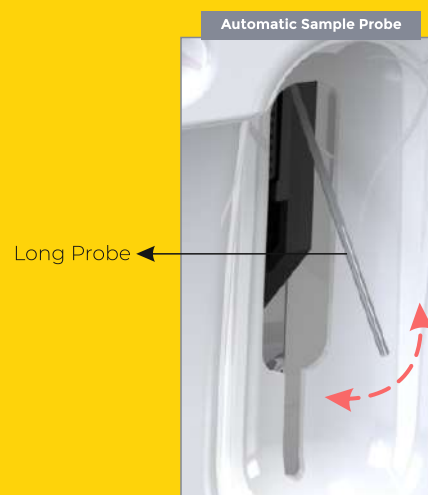
K⁺ / Na⁺ / iCa⁺⁺ Block



pH / HCO₃⁻ / Cl Block

BLOOD MEASUREMENT RANGE		
Parameter	Units	Range of indication
Na ⁺	mmol/L, mEq/L	20 - 200
K ⁺	mmol/L, mEq/L	0.2 - 40
Cl ⁻	mmol/L, mEq/L	25 - 200
iCa ⁺⁺	mmol/L	0.1 - 6.0
	mEq/L	0.2 - 12.0
	mg/dL	0.4 - 24.0
Li ⁺	mmol/L, mEq/L	0.2 - 5.0
pH		6.5 - 8.0
HCO ₃ ⁻	mmol/L, mEq/L	5 - 50

URINE MEASUREMENT RANGE		
Parameter	Units	Range of indication
Na ⁺	mmol/L	25 - 1000
K ⁺	mmol/L	1.0 - 500
Cl ⁻	mmol/L	25 - 500



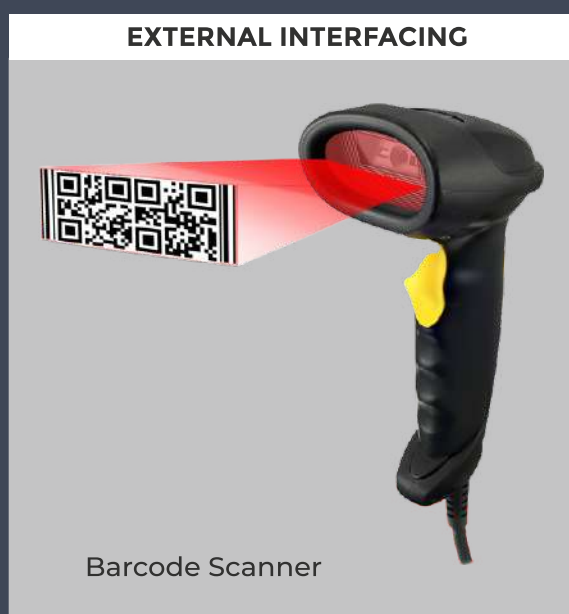
ST-200CC[®] Smart Blood Gas Analyzer



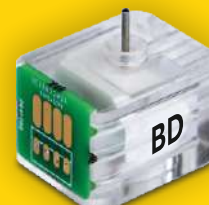
Hybrid Innovation for Unmatched Diagnostic Precision

SPECIFICATIONS

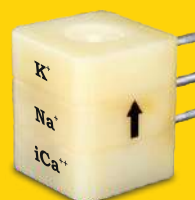
Principle	: Direct measurement with ion selective electrode-ISE (Electrolytes), Impedence (Hct) and Amperometry (pO ₂ , Glu, Lac) using thick film technology.
Sample volume	: $\cong 200\mu\text{L}$
Reading time	: $\cong 110$ Seconds.
Parameters	: This functionality allows the change of analytes.
Sample Type	: Whole Blood, Serum, Plasma and QC.
Conditioning	: Storage 5°C to 40°C (41 °F to 104 °F) and relative humidity 10-90% Operating 15°C to 35°C (59 °F to 95 °F) and relative humidity 10-90%
Display	: 10 inch high definition LCD with capacitive touch.
Print	: 3 inch thermal printer.
Input voltage	: 100-240V AC, 50/60Hz, 1.4A
Dimensions	: 15.8" W x 13.5" H x 9.3" D
Weight	: 5.6 Kg (without pack).
OS	: Android.
Battery	: Optional (2 hours in standby mode).
Storage	: 1,00,000 Samples.



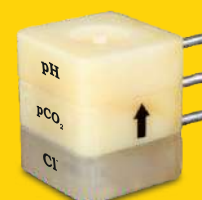
pO₂ / Glu / Lac / Hct Block



Bubble Detector



K⁺ / Na⁺ / iCa⁺⁺ Block

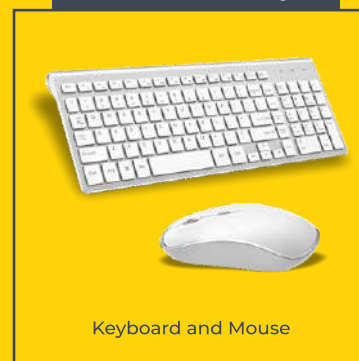


pH / pCO₂ / Cl⁻ Block

FEATURES

- Aspirate 1 sample and acquire 32 different results.
Blood gas : pH, pCO₂, pO₂.
Metabolites : Glu, Lac.
Hematocrit : Hct.
Electrolytes : Na⁺, K⁺, iCa⁺⁺, pH, Cl⁻.
Calculated Parameters : Hb, HCO₃⁻(p), BE, BE-B, BE-ECF, TCO₂(p), AG(Na), AG(K), SO₂, O₂Ct, HCO₃⁻(std), nCa, TCa, pO₂%, A, AaDO₂, a/A, mOsm, pH(TC), pCO₂(TC), pO₂(TC) & pO₂/FIO₂.
- Thick film technology for Glu, Lac, pO₂, Hct parameters.
- Room temperature stable electrodes and reagents (no refrigeration needed while shipping and storage).
- Self cleaning sample probe prevents contamination between samples.
- Levey-Jennings chart for NABL and seamless integration to LIS (Lab information system).
- Numeric & alpha numeric input option with 15 digits Patient ID & Patient Name.
- The results can be recalled by Sample List, Date, Patient ID, Patient Name & Department.
- Unlimited User Accounts and Login facility by their unique User ID & Password.
- External mouse, keyboard & barcode scanner interfacing option.
- Reagent consumption & sample count monitoring facility.
- 10 inch high definition LCD with capacitive touch screen.
- Single Reagent pack for all 12 types of parameter combinations.
- Maximum 1,00,000 samples data storage capacity.
- Reference ranges with Results on display and print.
- One touch calibration for new reagent pack.
- Integrated parameter conversion functionality.
- Two USB(2.0) & One RS232 output ports.
- Default and Alternate units of measurement.
- Used for near patient testing use only.
- Excellent precision and reliability.
- Extremely low cost per test.
- Automatic Calibration.
- Optional battery backup.
- Multilingual support.
- No Maintenance
- Plug and Play

External Interfacing



Keyboard and Mouse

MEASUREMENT RANGE			
Type	Parameter	Units	Range of indication
Blood Gas	pH		6.5 - 8.0
	pCO ₂	mmHg	5 - 250
		kPa	0.7 - 33.3
	pO ₂	mmHg	5 - 750
		kPa	0.7 - 100
Hematocrit	Hct	%	10 - 75
		L/L	0.10 - 0.75
Metabolites	Glu	mg/dL	20 - 700
		mmol/L	1.1 - 38.9
	Lac	mmol/L	0.30 - 20.00
		mg/dL	2.7 - 180.2
Electrolytes	Na ⁺	mmol/L, mEq/L	20 - 200
	K ⁺	mmol/L, mEq/L	0.2 - 40
	Cl ⁻	mmol/L, mEq/L	25 - 200
	iCa ⁺⁺	mmol/L	0.1 - 6.0
		mEq/L	0.2 - 12.0
		mg/dL	0.4 - 24.0

PARAMETER COMBINATIONS											
ABGEM	ABGM	ABGE	ABG	ELECTROLYTE							
BD	BD	BD	BD	BD	BD	BD	BD	BD	BD	BD	BD
K ⁺	K ⁺	K ⁺	B	K ⁺	K ⁺	K ⁺	K ⁺	K ⁺	K ⁺	K ⁺	K ⁺
Na ⁺	Na ⁺	Na ⁺	B	Na ⁺	Na ⁺	Na ⁺	Na ⁺	Na ⁺	Na ⁺	Na ⁺	Na ⁺
iCa ⁺⁺	iCa ⁺⁺	iCa ⁺⁺	B	B	iCa ⁺⁺	iCa ⁺⁺	iCa ⁺⁺	iCa ⁺⁺	iCa ⁺⁺	B	B
pH	pH	pH	pH	pH	pH	B	B	B	B	B	B
pCO ₂	pCO ₂	pCO ₂	pCO ₂	pCO ₂	pCO ₂	pH	pH	B	B	B	B
Cl ⁻	Cl ⁻	Cl ⁻	B	Cl ⁻	Cl ⁻	Cl ⁻	B	Cl ⁻	B	Cl ⁻	B
pO ₂	pO ₂	pO ₂	pO ₂	OGLH B	OGLH B	OGLH B	OGLH B	OGLH B	OGLH B	OGLH B	OGLH B
Glu	B	B	B								
Lac	Lac	B	B								
Hct	Hct	Hct	Hct								
1	2	3	4	5	6	7	8	9	10	11	12

ST-200CC[®]

Arterial Blood Gas Analyzer



- Aspirate 1 sample and acquire 25 different results.
Blood gas : pH, pCO₂, pO₂.
Hematocrit : Hct.
Electrolytes : Na⁺, K⁺, iCa⁺⁺, Li⁺, pH, Cl⁻.
Calculated Parameters : Hb, HCO₃⁻, BE, BE-B, BE-ECF, TCO₂, AG, AG(K), O₂ Sat, O₂Ct, SBC, nCa, TCa, pO₂%, A, AaDO₂, a/A.
- Multilingual support.
- Levey-Jennings chart for NABL and seamless integration to LIS (Lab information system).
- 7 inch high definition LCD with capacitive touch display.
- Excellent precision and reliability.
- Integrated Parameter conversion functionality.
- One single Reagent Pack with all 14 combinations.
- Numeric & alpha numeric input option with 15 digit operator and patient ID.
- External barcode scanner, mouse and keypad interfacing option.
- Single touch calibration for new reagent pack.
- Self probe wiping facility with 3 different aspiration modes (sample tube, sample syringe and capillary).
- Maximum 1,00,000 samples storage capacity.
- The result can be recalled by Date, Patient ID, Patient name, by parameters etc.
- Extremely low cost per test.
- Two USB output ports. (USB 2.0)
- Optional battery backup and much more.

Principle

Direct measurement with ion selective electrode (ISE), Impedence (Hct) and Amperometry (pO₂).

Parameters

This functionality allows the change of analytes.

Sample Type

Whole blood, serum, plasma, CSF and diluted urine.

Sample Volume

200µL.

Reading Time

Electrolytes - 65 Seconds
Electrolytes with HCO₃⁻ - 90 Seconds
ABGE - 120 Seconds

Speed

30 Samples / hour.

Storage

1,00,000 Samples.

Conditioning

Storage 5°C to 40°C (41°F to 104°F)
and relative humidity 10-90%
Operating 15°C to 35°C (59°F to 95°F)
and relative humidity 10-90%

Display

7 inch high definition LCD with capacitive touch.

Print

2 inch 24 column thermal printer.

Input Voltage

100-240V AC, 50/60Hz, 1.4A

Dimensions

15.2" W x 13.2" H x 8.3" D,
Weight: 4.5 kg (without pack).

Battery

Optional (2 hours in standby mode).

Operating System

Android. (WiFi enabled application up-gradable)

ST-200 aQua[®]

Electrolyte Analyzer

HCO_3^-



Sensa Core's ST-200 aQua (HCO_3^-) Electrolyte Analyzer is completely automated, microprocessor controlled electrolyte system that uses current ISE technology to make electrolyte measurements.

The ST-200 aQua (HCO_3^-) product measures various combinations of Sodium, Potassium, Ionized Calcium, Bicarbonate, pH, Chloride and Lithium in Whole blood, serum, plasma, CSF and diluted urine.

Principle

Direct measurement with ion selective electrode (ISE).

Parameters

This functionality allows the change of analytes.

Sample Type

Whole blood, serum, plasma, CSF and diluted urine.

Sample Volume

120µL.
500µL for diluted urine

Reading Time

75 Seconds

Speed

48 Samples / hour.

Storage

1,00,000 Samples

Conditioning

Storage 5°C to 40°C (41°F to 104°F)
and relative humidity 10-90%
Operating 15°C to 35°C (59°F to 95°F)
and relative humidity 10-90%

Display

7 inch high definition LCD with capacitive touch.

Print

2 inch 24 column thermal printer.

Input Voltage

100-240V AC, 50/60Hz, 1.4A

Dimensions

15.1" W x 13.2" H x 8.3" D,
Weight: 4.7 kg (without pack).

Battery

Optional (2 hours in standby mode).

Operating System

Android. (WiFi enabled application up-gradable)

- ★ Aspirate 1 sample and acquire 14 different results.
Electrolytes : Na⁺, K⁺, iCa⁺⁺, Li⁺, pH, HCO₃⁻, Cl⁻.
Calculated Parameters : nCa, TCa, pCO₂, TCO₂, BE, BE-ECF, AG(Na), AG(K).
- ★ Multilingual support.
- ★ Levey-Jennings chart for NABL and seamless integration to LIS (Lab information system).
- ★ 7 inch high definition LCD with capacitive touch display.
- ★ Excellent precision and reliability.
- ★ Integrated Parameter conversion functionality.
- ★ One single Reagent Pack with all 12 combinations.

- ★ Numeric & alpha numeric input option with 15 digit operator and patient ID.
- ★ External barcode scanner, mouse and keypad interfacing option.
- ★ Self-calibration once new reagent pack is installed.
- ★ Maximum 1,00,000 samples storage capacity.
- ★ The result can be recalled by Date, Patient ID, Patient name, by parameters etc.
- ★ Extremely low cost per test.
- ★ Two USB output ports. (USB 2.0)
- ★ Optional battery backup and much more.

BLOOD MEASUREMENT RANGE		
Parameter	Units	Range of Indication
Na ⁺	mmol/L	20 - 200
K ⁺	mmol/L	0.2 - 40
Cl ⁻	mmol/L	25 - 200
iCa ⁺⁺	mmol/L	0.1 - 6.0
	mg/dL	0.4 - 24.0
Li ⁺	mmol/L	0.2 - 5.0
pH		6.5 - 8.0
HCO ₃ ⁻	mmol/L	5 - 50

URINE MEASUREMENT RANGE		
Parameter	Units	Range of Indication
Na ⁺	mmol/L	25 - 1000
K ⁺	mmol/L	1.0 - 500
Cl ⁻	mmol/L	25 - 500

ELECTROLYTE ANALYZER MODELS											
HCO ₃ ⁻		ELECTROLYTE									
BD	BD	BD	BD	BD	BD	BD	BD	BD	BD	BD	BD
K ⁺	K ⁺	K ⁺	K ⁺	K ⁺	K ⁺	K ⁺	K ⁺	K ⁺	K ⁺	K ⁺	K ⁺
Na ⁺	Na ⁺	Na ⁺	Na ⁺	Na ⁺	Na ⁺	Na ⁺	Na ⁺	Na ⁺	Na ⁺	Na ⁺	Na ⁺
B	iCa ⁺⁺	iCa ⁺⁺	iCa ⁺⁺	iCa ⁺⁺	iCa ⁺⁺	iCa ⁺⁺	iCa ⁺⁺	iCa ⁺⁺	iCa ⁺⁺	B	B
pH	pH	Li ⁺	Li ⁺	B	Li ⁺	B	Li ⁺	B	B	B	B
HCO ₃ ⁻	HCO ₃ ⁻	pH	B	pH	pH	pH	B	B	B	B	B
Cl ⁻	Cl ⁻	Cl ⁻	Cl ⁻	Cl ⁻	B	B	B	Cl ⁻	B	Cl ⁻	B
1	2	3	4	5	6	7	8	9	10	11	12
Parameter Combinations											

ST-200 aQua[®]

Electrolyte Analyzer



Sensa Core's ST-200 aQua Electrolyte Analyzer is completely automated, microprocessor controlled electrolyte system that uses current ISE technology to make electrolyte measurements.

The ST-200 aQua product measures various combinations of Sodium, Potassium, Ionized Calcium, Lithium, pH and Chloride in whole blood, serum, plasma, CSF and diluted urine.

Principle

Direct measurement with ion selective electrode (ISE).

Parameters

This functionality allows the change of analytes.

Sample Type

Whole blood, serum, plasma, CSF and diluted urine.

Sample Volume

100µL.
500µL for diluted urine

Reading Time

50 Seconds

Speed

60 Samples / hour.

Storage

10,000 Samples,
250 Urine, 100 QC

Conditioning

Storage & Operating Temperature
5°C to 40°C (41°F to 104°F)
Relative humidity 10-90%

Output

128 x 64 graphics display
with Alphanumeric keypad,
USB Serial Port.

Print

2 inch 24 column thermal
printer.

Input Voltage

100-240V AC, 50/60Hz, 1.4A

Dimensions

15.1" W x 13.2" H x 8.3" D,
Weight: 4.2 kg (without pack).

Battery

Optional (2 hours in standby mode).

- Dispense 100 µL sample and acquire 8 different Critical Care results.
Electrolytes : Na⁺, K⁺, iCa⁺⁺, Li⁺, pH, Cl⁻.
Calculated Parameters : nCa, TCa
- Compact, Economical and easy to use.
- Excellent precision and reliability.
- Long life, maintenance-free electrode blocks.
- Integrated Parameter conversion functionality.
- One set of Reagent Pack is common for all 10 combinations.
- Intelligent Reagent Pack with electronic chip.
- Extremely low cost per test.
- Optional battery backup & much more.

ST-200Pro[®]

Electrolyte Analyzer



Sensa Core's ST-200Pro Electrolyte Analyzer is a completely automated, microprocessor controlled electrolyte system that uses current ISE technology to make electrolyte measurements. The ST-200 Pro product measures various combinations of Sodium, Potassium, Ionized Calcium, Lithium, pH and Chloride in whole blood, serum, plasma, CSF and diluted urine.

Sensa Core's ST-200Pro Electrolyte Analyzer products are specifically designed to meet the needs of small to medium-size laboratories by inventing and developing the latest technology, Sensa Core's Electrolyte Analyzers improve lab productivity while delivering sample results economically.

Principle

Direct measurement with ion selective electrode (ISE).

Parameters

This functionality allows the change of analytes.

Sample Type

Whole blood, serum, plasma, CSF and diluted urine.

Sample Volume

140µL.
500µL for diluted urine

Reading Time

70 Seconds

Speed

50 Samples / hour.

Storage

1,00,000 Samples

Conditioning

Storage & Operating Temperature
5°C to 40°C (41°F to 104°F)
Relative humidity 10-90%

Display

7 inch high definition LCD with capacitive touch.

Print

2 inch 24 column thermal printer.

Input Voltage

100-240V AC, 50/60Hz, 1.4A

Dimensions

15.2" W x 13.2" H x 8.3" D,
Weight: 4.7 kg (without pack).

Battery

Optional (2 hours in standby mode).

Operating System

Android. (WiFi enabled application up-gradable)

- ★ Aspirate 1 sample and acquire 8 different Critical Care results.
Electrolytes : Na⁺, K⁺, iCa⁺⁺, Li⁺, pH, Cl⁻.
Calculated Parameters : nCa, Tca
- ★ Multilingual support.
- ★ Levey-Jennings chart for NABL and seamless integration to LIS (Lab information system).
- ★ 7 inch high definition LCD with capacitive touch display.
- ★ Excellent precision and reliability.
- ★ Integrated Parameter conversion functionality.
- ★ One single Reagent Pack with all 10 combinations.

- ★ Numeric & alpha numeric input option with 15 digit operator and patient ID.
- ★ External barcode scanner, mouse and keypad interfacing option.
- ★ Self-calibration once new reagent pack is installed.
- ★ Maximum 1,00,000 samples storage capacity.
- ★ The result can be recalled by Date, Patient ID, Patient name, by parameters etc.
- ★ Extremely low cost per test.
- ★ Two USB output ports. (USB 2.0)
- ★ Optional battery backup and much more.

ST-200CL[®]

Electrolyte Analyzer



Sensa Core's ST-200CL Electrolyte analyzer is a completely automated, microprocessor controlled electrolyte system that uses current ISE technology to make electrolyte measurements. The ST-200CL product measures various combinations of Sodium, Potassium, Ionized Calcium, Lithium, pH and Chloride in whole blood, serum, plasma, CSF and diluted urine.

Sensa Core's ST-200CL Electrolyte Analyzer product is specifically designed to meet the needs of small to medium-size laboratories by inventing and developing the latest technology, Sensa Core's electrolyte analyzers improve lab productivity while delivering sample results economically.

Principle

Direct measurement with ion selective electrode (ISE).

Parameters

This functionality allows the change of analytes.

Sample Type

Whole blood, serum, plasma, CSF and diluted urine.

Sample Volume

180µL.
500µL for diluted urine.

Measuring Time

70 Seconds

Speed

50 Samples / hour.

Storage

10,000 Samples,
250 Urine, 100 QC

Conditioning

Storage & Operating Temperature
5°C to 40°C (41°F to 104°F)
Relative humidity 10-90%

Output

128 x 64 graphics display
with Y/N numeric keypad,
USB serial port.

Print

2 inch 24 column thermal
printer.

Input Voltage

100-240V AC, 50/60Hz, 1.4A

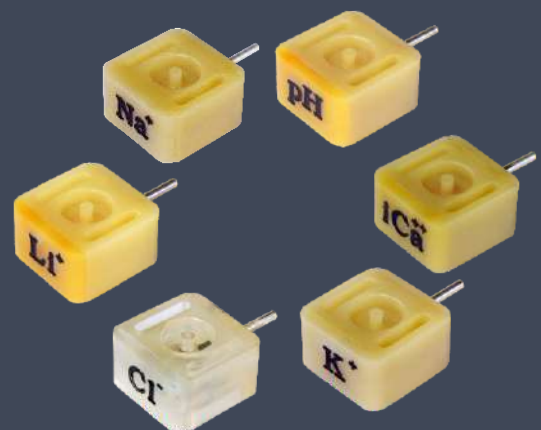
Dimensions

15.1" W x 13.2" H x 7.5" D,
Weight: 4.0 kg (without pack).

Battery

Optional
(2 hours in standby mode).

- ★ Aspirate 1 sample and acquire 8 different critical care results.
Electrolytes : Na⁺, K⁺, iCa⁺⁺, Cl⁻, pH, Li⁺
Calculated Parameters : nCa, TCa
- ★ Compact, economical and easy to use
- ★ Excellent precision and reliability
- ★ Long life, maintenance-free electrodes
- ★ Automatic and manual calibration
- ★ Optional battery backup
- ★ Extremely low cost per test
- ★ Inbuilt numeric patient ID feature
- ★ User friendly interfacing to computer or LIS
- ★ Intelligent reagent pack with electronic chip
- ★ High precision pump with more durable tubing
- ★ Single reagent pack containing reagent & waste reagent



ST-100B[®]

Electrolyte Analyzer



Sensa Core's ST-100B Electrolyte analyzer is a completely automated, microprocessor controlled electrolyte system that uses current ISE technology to make electrolyte measurements. The ST-100B product measures various combinations of Sodium, Potassium, Ionized Calcium, Lithium, pH, Bicarbonate and Chloride in whole blood, serum, plasma, CSF and diluted urine.

Sensa Core's ST-100B Electrolyte Analyzer product is specifically designed to meet the needs of small to medium-size laboratories by inventing and developing the latest technology, Sensa Core's electrolyte analyzers improve lab productivity while delivering sample results economically.

Principle

Direct measurement with ion selective electrode (ISE).

Parameters

This functionality allows the change of analytes.

Sample Type

Whole blood, serum, plasma, CSF and diluted urine.

Sample Volume

180µL.
500µL for diluted urine.

Measuring Time

80 Seconds

Speed

45 Samples / hour.

Storage

10,000 Samples,
250 Urine, 100 QC

Conditioning

Storage 5°C to 40°C (41°F to 104°F)
and relative humidity 10-90%
Operating 10°C to 37°C
(50°F to 98.6°F) and relative
humidity 10-90%

Output

128 x 64 graphics display
with Y/N numeric keypad,
USB serial port.

Print

2 inch 24 column thermal
printer.

Input Voltage

100-240V AC, 50/60Hz, 1.4A

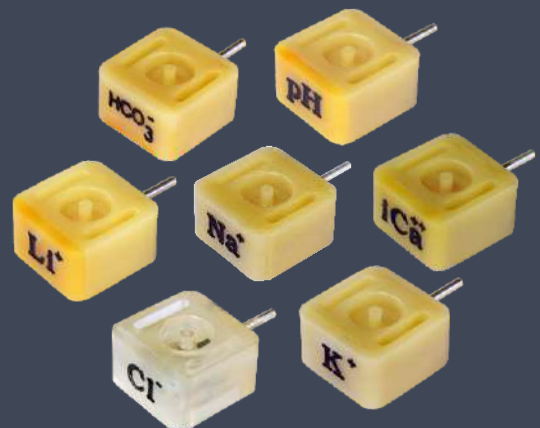
Dimensions

15.1" W x 13.2" H x 7.5" D,
Weight: 4.0 kg (without pack).

Battery

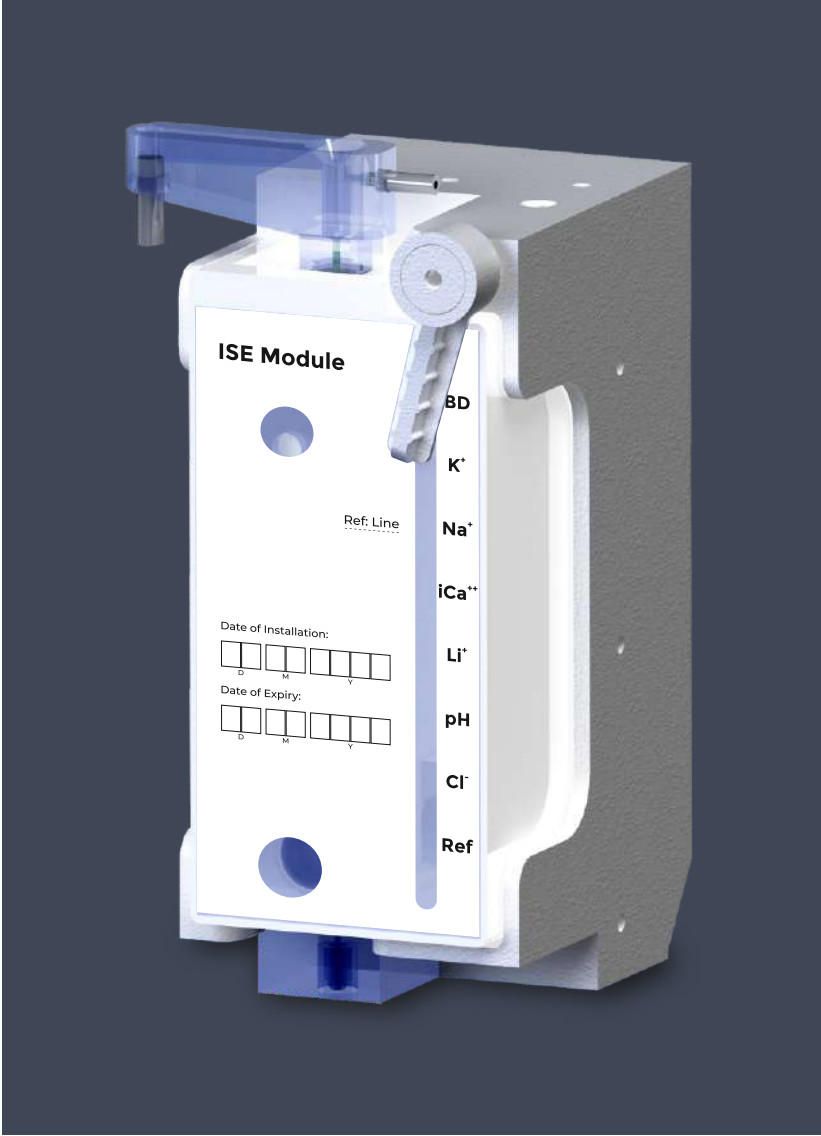
Optional
(2 hours in standby mode).

- ★ Aspirate 1 sample and acquire 14 different critical care results.
Electrolytes : Na^+ , K^+ , iCa^{++} , Cl^- , pH/Li^+ , HCO_3^-
Calculated Parameters : nCa , TCa , pCO_2 , TCO_2 , BE , BE-ECF , AG(Na) , AG(K) .
- ★ Compact, economical and easy to use
- ★ Excellent precision and reliability
- ★ Long life, maintenance-free electrodes
- ★ Extremely low cost per test
- ★ Automatic and manual calibration
- ★ High precision pump with more durable tubing
- ★ Single reagent pack containing reagent & waste reagent



ST-200 ISE MODULE

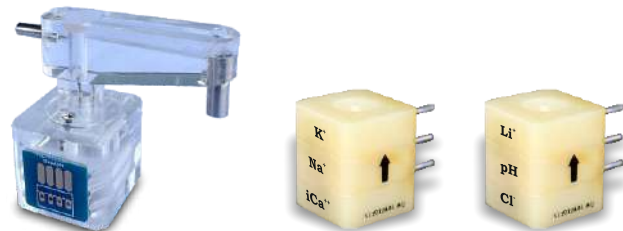
Electrolyte Analyzer



ISE Module Models									
Electrode Parameters									
BD	BD	BD	BD	BD	BD	BD	BD	BD	BD
K ⁺	K ⁺	K ⁺	K ⁺	K ⁺	K ⁺	K ⁺	K ⁺	K ⁺	K ⁺
Na ⁺	Na ⁺	Na ⁺	Na ⁺	Na ⁺	Na ⁺	Na ⁺	Na ⁺	Na ⁺	Na ⁺
B	B	iCa ⁺⁺	iCa ⁺⁺	iCa ⁺⁺	iCa ⁺⁺	iCa ⁺⁺	iCa ⁺⁺	iCa ⁺⁺	iCa ⁺⁺
B	B	B	B	Li ⁺	pH	Li ⁺	pH	Li ⁺	Li ⁺
B	B	B	B	B	B	B	B	B	B
B	Cl ⁻	B	Cl ⁻	B	B	B	Cl ⁻	Cl ⁻	Cl ⁻
①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩

BLOOD MEASUREMENT RANGE		
Parameter	Units	Range of Indication
Na ⁺	mmol/L	20 - 200
K ⁺	mmol/L	0.2 - 40
Cl ⁻	mmol/L	25 - 200
iCa ⁺⁺	mmol/L	0.1 - 6.0
	mg/dL	0.4 - 24.0
Li ⁺	mmol/L	0.2 - 5.0
pH		6.5 - 8.0

URINE MEASUREMENT RANGE		
Parameter	Units	Range of Indication
Na ⁺	mmol/L	25 - 1000
K ⁺	mmol/L	1.0 - 500
Cl ⁻	mmol/L	25 - 500



Our Ion Selective Electrode (ISE) Module is designed to seamlessly integrate with clinical chemistry analyzers, offering precise ion concentration measurements of Sodium, Potassium, Ionized Calcium, Chloride, Lithium, and pH, which are essential for accurate diagnostic testing. Designed for use in medical laboratories and healthcare environments, this module ensures reliable, real-time ion analysis to support critical clinical decisions.

By integrating our Ion Selective Electrode (ISE) Module, your clinical chemistry analyzer will gain enhanced functionality for accurate and efficient ion analysis, improving patient care through better diagnostics and faster results.

Principle

Direct measurement with ion selective electrode (ISE).

Sample Type

Serum, Plasma, Diluted Urine, Whole Blood, CSF and Quality Control.

Sample Volume

120µL Serum
500µL Diluted Urine

Reading Time

25 - 32 seconds Serum
25 seconds Urine.

Speed

100 Samples / hour Serum
140 samples / hour Urine.

Conditioning

Storage & Operating Temperature 5°C to 40°C (41°F to 104°F)
Relative humidity 10-90%

Print out(Optional)

2 inch 24 column thermal printer.

Input Voltage

12V DC, 8.5A

Dimensions

3.54" L x 2.52" W x 5.9" H,
Weight: 0.67 kg.

Communication

RS232

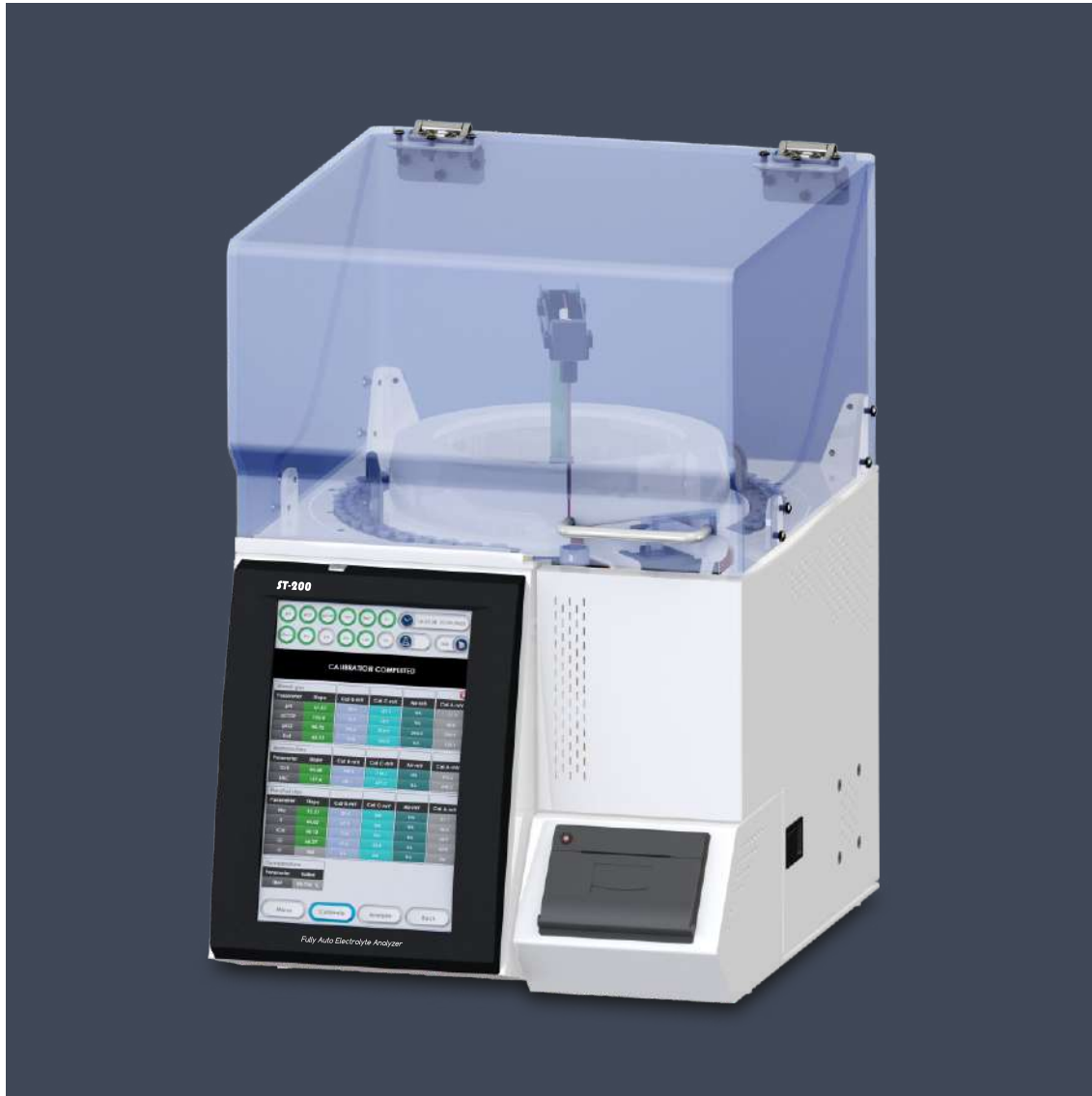
Calibration

2 Point every 6 / 12 hours.
On Demand
1 Point after every measurement.

- Acquire 6 different Critical Care results.
Electrolytes : Na^+ , K^+ , iCa^{++} , Li^+ , pH, Cl^- .
- Compact, Economical and easy to use.
- Excellent precision and reliability.
- Long life, maintenance-free electrode blocks.
- Fully shielded measurement chamber.
- Integrated Parameter conversion functionality.
- One set of Reagent Pack is common for all 10 combinations.
- Convenient and Intelligent Reagent Pack with electronic chip.
- Extremely low cost per test.
- Easy interface and different mounting possibilities.
- Customizable design and configuration options.

ST-200

Fully Auto Electrolyte Analyzer



Ensure fast, accurate, and reliable electrolyte analysis with our state-of-the-art Autoloader Electrolyte Analyzer. This advanced system is designed to deliver precise results for a wide range of critical parameters, including Sodium, Potassium, Ionized Calcium, Chloride, Lithium, and pH. With high throughput capabilities, it is optimized for both routine and urgent testing, making it ideal for clinical laboratories and medical facilities where efficiency and accuracy are paramount. The Autoloader's fully automated process enhances ease of use and minimizes human error, allowing healthcare professionals to provide timely, data-driven care to patients. Whether for monitoring electrolyte balance or supporting diagnostic assessments, this analyzer guarantees the reliability and speed needed in today's fast-paced medical environments.

Elevating Diagnostics with Precise Ion Detection

Principle

Direct measurement with ion selective electrode (ISE).

Parameters

This functionality allows the change of analytes.

Sample Type

Whole blood, serum, plasma, CSF and diluted urine.

Sample Volume

120µL.
500µL for diluted urine.

Reading Time

40 - 45 seconds Serum
38 seconds Urine.

Speed

85 Samples / hour Serum
95 samples / hour Urine.

Storage

1,00,000 Samples,

Conditioning

Storage & Operating
Temperature 5°C to 40°C
(41°F to 104°F)
Relative humidity 10-90%

Display

10 inch high definition LCD
with capacitive touch.

Print

3 inch thermal printer.

Input Voltage

100-240V AC, 50/60HZ, 1.4A

Dimensions

17.3" L x 14" W x 20.3" H,
Weight: 12 Kg.

OS

Android. (WiFi enabled
application up-gradable)

- 35 Sample positions.
- 6 critical care results Na^+ , K^+ , iCa^{++} , pH, Cl^- & Li^+ are obtained from 120µL of sample.
- Dedicated stat position for immediate sample measurement.
- Dedicated Daily Cleaner and Quality Control Positions.
- Efficient multi-sample batch handling.
- Auto repeat testing for samples within range and out-of-range results.
- Safety lock system for probe operation.
- Internal barcode scanner to enter patient ID and for setting QC ranges automatically.
- Reagent consumption & sample count monitoring facility.
- One set of Reagent Pack is common for all 10 combinations.



SPECIFICATIONS

Test Principle	: Determination of glucose in fresh capillary, venous whole blood samples
Assay Method	: Amperometric Biosensor
Enzyme	: Glucose Oxidase
Sample	: Capillary, venous whole blood
Sample Size	: 0.5 µL (500 nanoliters)
Test Time	: 5 Seconds
Memory	: 500 Previous Readings
Result Range	: 20 to 800 mg/dL (1.1 to 44.4 mmol/L)
Measurement Units	: mg/dL, mmol/L
Hematocrit	: 15 % to 65 %
Automatic Shutoff	: After 5 seconds, depending on operating status
Battery Life	: 500 tests
Operating Temp.	: 2°C to 50°C (35.6°F to 122°F)

FEATURES

- **Blood Sample Volume**
0.5 µL
- **Test Time**
5 Seconds
- **Large LCD Display**
- **Strip Ejection**
- **No Coding**
- **Date and Time**
- **Bluetooth**



Gluco Spark[®]

Blood Glucose Monitoring System

Blood Glucose Meters are often used by diabetic patients to monitor blood glucose levels constantly in order to stay healthy. Visiting labs 5-6 times a month is quite strenuous as well as expensive. To make it affordable, multiple models of Blood Glucose Meters came up with highly advanced features for testing the blood glucose levels in the body.

These Glucometers are reliable, easy to use, and available at affordable prices. In this regard, Sensa Core has achieved a milestone by developing the Gluco Spark Blood Glucose Measuring System which is code-free and one of the smartest products of this segment. Sensa Core's Gluco Spark is virtually a pain-free device that provides the results within 5 seconds.

Operating Relative- Humidity	: 10 % to 95 % (non-condensing)
Accuracy	: $\pm 5\%$
Precision	: $\pm 4.5\%$
Strips Storage Temp.:	0°C to 50°C (32°F to 122°F) (Do not refrigerate)
Strips Shelf Life	: 24 Months
Strips Packing	: 25, 50 and 100 (2 vials x 50 strips or 4 vials x 25 strips)
Power Source	: 3 volt lithium battery (CR2032), replaceable
Display Size (mm)	: 48 (diagonally) LCD
Meter Size (cm)	: Length 10.0 x Width 3.1 x Depth 1.5
Weight	: 39 grams (with battery)
Data Transfer	: Serial USB Micro B Port and Bluetooth (Optional)
Construction	: Handheld
Protection Class	: C
Meter Warranty	: 5 Years

fast, accurate, easy to use



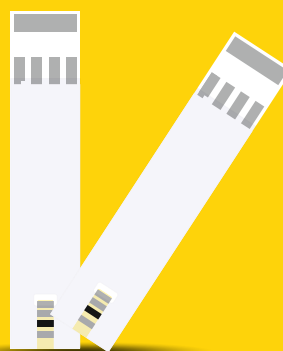
Accurate



Portable



Convenient



fast, accurate, easy to use

SPECIFICATIONS

Test Principle	: Determination of glucose in fresh capillary whole blood
Assay Method	: Amperometric Biosensor
Sample	: Capillary whole blood
Sample Size	: 0.5 μ L (500 nanoliters)
Test Time	: Less than 9 Seconds
Memory	: 500 Previous Readings with date and time
Result Range	: 20 to 800 mg/dL (1.1 to 44.4 mmol/L)
Measurement Units	: mg/dL, mmol/L
Hematocrit	: 3 % to 75 %
Automatic Shutoff	: After 5 seconds, depending on operating status
Batteries Life	: Approximately 1000 tests
Operating Temp.	: 2°C to 50°C (35.6°F to 122°F)

FEATURES

- **Blood Sample Volume**
0.5 μ L
- **Test Time**
< 9 Seconds
- **Large LCD Display**
- **Estimated Hct**
- **Strip Ejection**
- **No Coding**
- **Date and Time**
- **Bluetooth**



Gluco Score[®]

Blood Glucose Monitoring System

Blood Glucose Meters are often used by diabetic patients to monitor blood glucose levels constantly in order to stay healthy. Visiting labs 5-6 times a month is quite strenuous as well as expensive. To make it affordable, multiple models of Blood Glucose Meters came up with highly advanced features for testing the blood glucose levels in the body.

These Glucometers are reliable, easy to use, and available at affordable prices. In this regard, Sensa Core has achieved a milestone by developing the Gluco Score Blood Glucose Measuring System which is code-free and one of the smartest products of this segment. Sensa Core's Gluco Score is virtually a pain-free device that provides the results within 5 seconds.

Operating Relative-Humidity	: 10 % to 95 % (non-condensing)
Strips Storage Temp.	: 0°C to 50°C (32°F to 122°F) (Do not refrigerate)
Strips Shelf Life	: 24 Months
Power Source	: Two 3 volt lithium battery (CR2032), replaceable
Display Size (mm)	: 50 (diagonally) LCD
Average	: 7-day, 14-day or 30-day averaging
Meter Size (cm)	: Length 8.06 x Width 5.4 x Depth 1.7
Weight	: 54.5 grams (with batteries)
Data Port	: Serial Port RS-232 with 2.5mm Jack and BT(Optional)
Strip Ejection	: Yes
Construction	: Handheld
Protection Class	: C
Meter Warranty	: 5 Years

Hematocrit (Hct) is known to be confounding factor that interfaces with many blood glucose measurement technologies, resulting in deviated readings. Dynamic electrochemistry has been used to correct these potential deviations.



Accurate



Portable



Convenient



No Battery Needed
Battery-free glucometer for lifetime



No Coding
Code free Technology



No Settings
Meter does not require any settings



Unbelievably Light
Compact and Innovative design, Easy to carry



Auto Logging
Auto-save readings on app and view trends



Personalized Insights
Artificial Intelligence (AI) based notifications for high / low readings

Smart / Light / Accurate

SPECIFICATIONS

Test Principle	: Determination of glucose in fresh capillary whole blood
Assay Method	: Amperometric Biosensor
Sample	: Capillary whole blood
Sample Size	: 0.5 μ L (500 nanoliters)
Test Time	: 5 Seconds
Memory	: Unlimited results. Memory is limited to smart phone or mobile device memory
Result Range	: 20 to 800 mg/dL (1.1 to 44.4 mmol/L)
Measurement Units	: mg/dL, mmol/L
Hematocrit	: 15 % to 65 %
Operating Temp.	: 2°C to 50°C (35.6°F to 122°F)
Operating Relative-Humidity	: 10 % to 95 % (non-condensing)

FEATURES

- ▶ **Blood Sample Volume**
0.5 μ L
- ▶ **Test Time**
5 Seconds
- ▶ **USB Type-C Connector**
- ▶ **Battery-free glucometer**
- ▶ **No Coding.**
- ▶ **Works with Android devices**



Gluco STICK®

Blood Glucose Monitoring System

Blood Glucose Meters are often used by diabetic patients to monitor blood glucose levels constantly in order to stay healthy. Visiting labs 5-6 times a month is quite strenuous as well as expensive. To make it affordable, multiple models of Blood Glucose Meters came up with highly advanced features for testing the blood glucose levels in the body.

These Glucometers are reliable, easy to use, and available at affordable prices. In this regard, Sensa Core has achieved a milestone by developing the Gluco Stick Blood Glucose Measuring System which is code-free and one of the smartest products of this segment. Sensa Core's Gluco Stick is virtually a pain-free device that provides the results within 5 seconds.

Strips Storage Temp.:	0°C to 50°C (32°F to 122°F) (do not refrigerate)
Strips Shelf Life	: 24 Months
Power Source	: From the smart phone or mobile device (DC 5.0V )
Display	: Application on a smart phone or mobile device screen
Average	: 7-day, 14-day or 30-day averaging
Meter Size (cm)	: Length 5.7 x Width 2.3 x Depth 1.1
Weight	: 10 grams
Data Port	: Through application
Connectivity	: USB Type C
Construction	: Handheld
Protection Class	: C
Meter Warranty	: 5 Years

USB CONNECTED GLUCOMETER



Accurate



Portable



Convenient



No Battery Needed

Battery-free glucometer for lifetime



No Coding

Code free Technology



No Settings

Meter does not require any settings



Unbelievably Light

Compact and Innovative design, Easy to carry



Auto Logging

Auto-save readings on app and view trends



Personalized Insights

Artificial Intelligence (AI) based notifications for high / low readings

Smart / Light / Accurate

SPECIFICATIONS

Test Principle	: Determination of glucose in fresh capillary whole blood
Assay Method	: Amperometric Biosensor
Sample	: Capillary whole blood
Sample Size	: 0.5 μ L (500 nanoliters)
Test Time	: 5 Seconds
Memory	: Unlimited results. Memory is limited to smart phone or mobile device memory
Result Range	: 20 to 800 mg/dL (1.1 to 44.4 mmol/L)
Measurement Units	: mg/dL, mmol/L
Hematocrit	: 15 % to 65 %
Operating Temp.	: 2°C to 50°C (35.6°F to 122°F)
Operating Relative-Humidity	: 10 % to 95 % (non-condensing)

FEATURES

- ▶ **Blood Sample Volume**
0.5 μ L
- ▶ **Test Time**
5 Seconds
- ▶ **USB Type-C Connector**
- ▶ **Battery-free glucometer**
- ▶ **No Coding.**
- ▶ **Works with Android devices**





Blood Glucose Monitoring System

Blood Glucose Meters are often used by diabetic patients to monitor blood glucose levels constantly in order to stay healthy. Visiting labs 5-6 times a month is quite strenuous as well as expensive. To make it affordable, multiple models of Blood Glucose Meters came up with highly advanced features for testing the blood glucose levels in the body.

These Glucometers are reliable, easy to use, and available at affordable prices. In this regard, Sensa Core has achieved a milestone by developing the Gluco Tag Blood Glucose Measuring System which is code-free and one of the smartest products of this segment. Sensa Core's Gluco Tag is virtually a pain-free device that provides the results within 5 seconds.

Strips Storage Temp.:	0°C to 50°C (32°F to 122°F) (do not refrigerate)
Strips Shelf Life	: 24 Months
Power Source	: From the smart phone or mobile device (DC 5.0V )
Display	: Application on a smart phone or mobile device screen
Average	: 7-day, 14-day or 30-day averaging
Meter Size (cm)	: Length 5.7 x Width 2.3 x Depth 1.1
Weight	: 10 grams
Data Port	: Through application
Connectivity	: USB Type C
Construction	: Handheld
Protection Class	: C
Meter Warranty	: 5 Years

USB CONNECTED GLUCOMETER



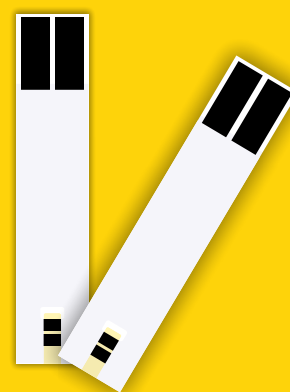
Accurate



Portable



Convenient



SPECIFICATIONS

Test Principle	: Determination of Lactate in fresh capillary whole blood
Assay Method	: Amperometric Biosensor
Sample	: Capillary whole blood
Sample Size	: 0.5 μ L (500 nanoliters)
Test Time	: 5 Seconds
Memory	: 500 Previous Readings
Result Range	: 0.2 to 25 mmol/L
Measurement Units	: mmol/L
Hematocrit	: 15 % to 65 %
Automatic Shutoff	: After 5 seconds, depending on operating status
Battery Life	: Approximately 1000 tests
Operating Temp.	: 5°C to 30°C (41°F to 86°F)

FEATURES

- **Blood Sample Volume**
0.5 μ L
- **Test Time**
5 Seconds
- **Large LCD Display.**
- **Strip Ejection.**
- **No Coding.**



Lacto Spark[®]

Blood Lactate Measuring System

A lactate meter is a portable device that measures the value of the lactate in the whole blood. The determination of lactate value provides clear insights and functionality of the human circulatory system and also the movement of oxygen in the muscles and tissues. It is extensively used by sports athletes to monitor the oxygen levels in the muscles and also the lactate value in the tissues that are related to liver or hypoxia.

Regular observation of the lactate value is important as it helps the trainer or doctors to monitor the adequacy of the workout/treatment. A controlled check on the lactate value can be done by anyone within seconds using Sensa Core's Lacto Spark which is India's first, next-generation, highly advanced ultra-low volume lactate measuring system can measure the lactate value in the blood within 5 seconds.

Operating Relative-Humidity	: 10 % to 90 % (non-condensing)
Strips Storage Temp.	: 5°C to 30°C (41°F to 86°F) (Do not refrigerate)
Strips Shelf Life	: 15 Months
Power Source	: One 3 volt lithium battery (CR2032), replaceable
Display Size (mm)	: 48 (diagonally) LCD
Meter Size (cm)	: Length 10.0 x Width 3.1 x Depth 1.5
Weight	: 34 grams (with battery)
Data Port	: Serial Port RS-232 with 2.5mm Jack and BT(Optional)
Strip Ejection	: Yes
Construction	: Handheld
Protection Class	: A
Meter Warranty	: 3 Years

fast, accurate, easy to use



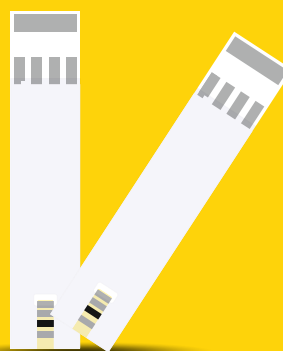
Accurate



Portable



Convenient



fast, accurate, easy to use

SPECIFICATIONS

Test Principle	: Determination of lactate in fresh capillary whole blood
Assay Method	: Amperometric Biosensor
Sample	: Capillary whole blood
Sample Size	: 0.5 μ L (500 nanoliters)
Test Time	: 5 Seconds
Memory	: 500 Previous Readings with date and time
Result Range	: 0.2 to 25 mmol/L (1.8 to 225 mg/dL)
Measurement Units	: mmol/L, mg/dL
Hematocrit	: 3 % to 75 %
Automatic Shutoff	: After 5 seconds, depending on operating status
Battery Life	: Approximately 1000 tests
Operating Temp.	: 5°C to 30°C (41°F to 86°F)

FEATURES

- **Blood Sample Volume**
0.5 μ L
- **Test Time**
5 Seconds
- **Large LCD Display**
- **Estimated Hct**
- **Strip Ejection**
- **No Coding**
- **Date and Time**
- **Bluetooth**



LACTO SCORE[®]

Blood Lactate Measuring System

A lactate meter is a portable device that measures the value of the lactate in the whole blood. The determination of lactate value provides clear insights and functionality of the human circulatory system and also the movement of oxygen in the muscles and tissues. It is extensively used by sports athletes to monitor the oxygen levels in the muscles and also the lactate value in the tissues that are related to liver or hypoxia.

Regular observation of the lactate value is important as it helps the trainer or doctors to monitor the adequacy of the workout/treatment. A controlled check on the lactate value can be done by anyone within seconds using Sensa Core's Lacto Score which is India's first, next-generation, highly advanced ultra-low volume lactate measuring system can measure the lactate value in the blood within 5 seconds.

Operating Relative-Humidity	: 10 % to 90 % (non-condensing)
Strips Storage Temp.	: 5°C to 30°C (41°F to 86°F) (Do not refrigerate)
Strips Shelf Life	: 15 Months
Power Source	: One 3 volt lithium battery (CR2032), replaceable
Display Size (mm)	: 50 (diagonally) LCD
Meter Size (cm)	: Length 8.06 x Width 5.4 x Depth 1.7
Weight	: 52 grams (with battery)
Data Port	: Serial Port RS-232 with 2.5mm Jack and BT(Optional)
Strip Ejection	: Yes
Construction	: Handheld
Protection Class	: A
Meter Warranty	: 3 Years

Hematocrit (Hct) is known to be confounding factor that interfaces with many blood lactate measurement technologies, resulting in deviated readings. Dynamic electrochemistry has been used to correct these potential deviations.



Accurate



Portable



Convenient



For testing hemoglobin & hematocrit in whole blood

SPECIFICATIONS

Methodology	: Reflectance Photometry
Test Time	: Less Than 30 seconds
Measurement Range	: 0 - 25.6 g/dL, 0 - 256 g/L, 0 - 15.9 mmol/L
Sample	: Whole Blood (Capillary, Venous)
Sample Volume	: 10 µL
Power Source	: Rechargeable Lithium ion Polymer Battery Voltage: 3.7V Capacity: 480mAh AC Power Adapter (Mini USB, Output: 5.0V DC, 1.0A)
Battery Life	: 1000+ tests
Units of Measure	: g/dL, g/L, mmol/L
Memory	: 1000 records with date and time
Automatic Shut off	: 5 minutes after last use

FEATURES

- **Testing time**
Less than 30 seconds
- **A single drop**
10µL of whole blood
- **High memory**
1000 records
- **Bluetooth**



Hemo Spark[®]

Blood Hemoglobin Measuring System

Hemoglobin meters are used for measuring hemoglobin and hematocrit levels in the whole blood. Generally, Hemoglobin tests are done to know the RBC count, to analyze the severity of anemia, hematocrit, and others. It is extensively used during blood donations or taking important decisions like blood transfusions.

Hemoglobin meters are used to screen and diagnose diseases that might affect the red blood cells or to know the hemoglobin value in the blood. Monitoring the optimal hemoglobin levels is important to check the anemic condition in children and in adults as anemia can be a door for several other diseases in the human body.

Meter Size	: 100 mm × 54.5 mm × 25.5 mm
Display Size	: 38.5 mm × 37.5 mm
Weight	: 80.8 g
Meter Storage conditions	: 0 - 50°C (32 - 122°F)
Operating Conditions	: 2 - 40°C (35.6 - 104°F)
Working Humidity	: 5 - 95% RH
Analyzer Port	: USB cable for Data Transfer or Battery Recharge or Power (optional)
Connectivity	: USB 2.0 for Data Transfer to PC and Printer Bluetooth for Data Transfer to Mobile Device
Meter Warranty	: 3 Years
Strips Storage and Working Environment	: 0-50°C (32 - 122°F)
Working Humidity	: 5-95% RH
Strip Shelf Life	: 24 Months
Auto Calibration	: Auto/Self Calibrations
Sensitivity	: More than 80%
Specificity	: More than 80%
Bias (Limits of Agreement)	: 0.5 g/dL (±1gm/dL)
Accuracy	: 98%
Reproducibility	: CV : < 3%
Protection Class	: A



Accurate



Portable



Convenient



For testing hemoglobin & hematocrit in whole blood

SPECIFICATIONS

Test Principle	: Determination of Hemoglobin in fresh capillary whole blood
Assay Method	: Bioimpedance
Sample	: Capillary whole blood
Sample Size	: 0.5 μ L (500 nanoliters)
Test Time	: 5 Seconds
Memory	: 500 Previous Readings with date and time
Result Range	: 0-25.6 g/dL, 0-256 g/L, 0-15.9 mmol/L
Measurement Units	: g/dL, g/L, mmol/L
Automatic Shutoff	: After 5 seconds, depending on operating status
Battery Life	: Approximately 1000 tests
Operating Temp.	: 2°C to 50°C (35.6°F to 122°F)

FEATURES

- **Blood Sample Volume**
0.5 μ L
- **Test Time**
5 Seconds
- **Large LCD Display**
- **Estimated Hct**
- **No Coding**
- **Strip Ejection**
- **Bluetooth**



Hemo Score[®]

Blood Hemoglobin Measuring System

Hemoglobin meters are used for measuring hemoglobin and hematocrit levels in the whole blood. Generally, Hemoglobin tests are done to know the RBC count, to analyze the severity of anemia, hematocrit, and others. It is extensively used during blood donations or taking important decisions like blood transfusions.

Hemoglobin meters are used to screen and diagnose diseases that might affect the red blood cells or to know the hemoglobin value in the blood. Monitoring the optimal hemoglobin levels is important to check the anemic condition in children and in adults as anemia can be a door for several other diseases in the human body.

Operating Relative-Humidity	: 10 % to 95 % (non-condensing)
Strips Storage Temp.	: 0°C to 50°C (32°F to 122°F) (Do not refrigerate)
Strips Shelf Life	: 24 Months
Power Source	: One 3 volt lithium battery (CR2032), replaceable
Display Size (mm)	: 50 (diagonally) LCD
Meter Size (cm)	: Length 8.06 x Width 5.4 x Depth 1.7
Weight	: 52 grams (with battery)
Data Port	: Serial Port RS-232 with 2.5mm Jack and BT(Optional)
Strip Ejection	: Yes
Construction	: Handheld
Protection Class	: A
Meter Warranty	: 3 Years



Accurate



Portable



Convenient

S-CORE[®]

Health Monitor

*Convenient
Efficient
Adaptable*



ABOUT THE S-CORE

S-CORE Health Monitor is an innovative device which integrates multiple functionalities into one compact and portable unit. Convenient, Efficient and Adaptable, **S-CORE** takes accurate measurements of various vital signs parameters, various POCT parameters and can be used in a wide range of application scenarios, including hospitals, clinics, emergency, patient visit, homecare, recovery and sports etc.

S-CORE is a world's first health monitor which measures various vital signs parameters and various POCT parameters in a single device. It measures total 8 parameters such as Blood Pressure, Pulse Rate, Temperature, SpO₂, Glucose, Lactate, Hemoglobin & Cholesterol.

FEATURES

- All-in-one design, adaptable, easy to use
- Powerful vital signs and POCT parameters measurement capabilities
- Supports both corded and cordless operation
- Small, compact and portable
- Long life rechargeable batteries, no need of frequent charging
- Wireless connectivity through built-in Bluetooth

SPECIFICATIONS

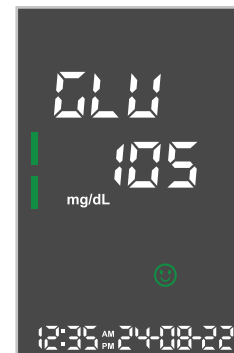
Conditioning	: Operating Temperature 5°C to 40°C / 41°F to 104°F & Relative Humidity 10 to 90 % Storage Temperature -20°C to 60°C / -4°F to 140°F & Relative Humidity 10 to 90 %
Power Source	: 4 x 1.5V AA non-rechargeable / rechargeable batteries (optional) or 6V/1A AC Adapter
Battery Life	: Up to 250 tests (using new or fully charged batteries)
Dimension	: 119 mm (L) x 93 mm (W) x 62 mm (D)
Display	: 71 mm (diagonally) colored LCD
Weight	: <350g
Operation Key	: Four Keys : ON/OFF, Backward, Forward & Setting
Data Port	: Mini USB
Automatic Shut off	: 2 minutes after last use

BENEFITS

- Check health or abnormal symptoms at any time anywhere
- Improving clinicians working efficiency
- Reduced patient hospital stay or hospital visit frequency, saving cost and time.

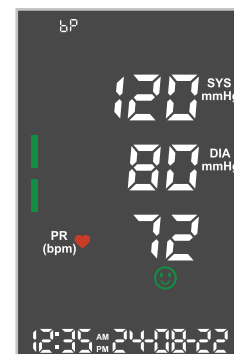
1 Glucose

Test Principle	:	Determination of glucose in fresh capillary whole blood
Assay Method	:	Amperometric Biosensor
Sample	:	Capillary whole blood
Sample Size	:	0.5 μ L (500 nanoliters)
Test Time	:	5 Seconds
Result Range	:	20 to 800 mg/dL (1.1 to 44.4 mmol/L)
Measurement Units	:	mg/dL, mmol/L
Average	:	7-day, 14-day or 30-day averaging.



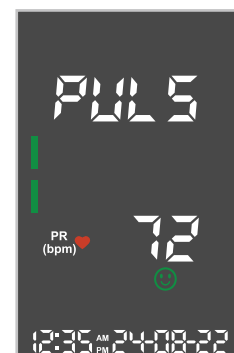
2 Blood Pressure

Test Principle	:	Determination of Blood pressure through brachial artery
Assay Method	:	Oscillometric method
Measurement Range	:	Pressure: 0 to 299 mmHg, Pulse: 40 to 180/min.
Accuracy/Calibration	:	Pressure: ± 3 mmHg or 2% of reading Pulse: ± 5 % of reading
Inflation	:	Automatic by electric pump
Deflation	:	Automatic pressure release valve
Rapid Air Release	:	Automatic exhaust valve
Cuff Size	:	Approximately 5 3/4"(w) x 17 1/2"(l) (146 mm x 446 mm) Cuff tube 23 5/8" (600 mm)
Cuff Circumference	:	Fits arm circumferences 9" to 13" (220 mm to 320 mm)
Memory	:	Up to 14 readings



3 Pulse Rate

Display Range	:	0 ~ 235 bpm
Measuring Range	:	30 ~ 235 bpm
Display Mode	:	Amplitude Bar
Resolution	:	1 bpm
Accuracy	:	30 ~ 99 bpm ± 2 bpm; 100 ~ 235 bpm ± 2 %



4 Temperature

Sensor	:	Infrared Temperature Sensor
Measuring Range	:	32°C to 42.9°C (89.6°F to 109.2°F)
Accuracy	:	± 0.2 °C (0.36°F)
Resolution	:	0.1°C / 0.2°F
Measuring Distance	:	Less than 3 cm
Response Time	:	300 ms
Measurement Units	:	°C / °F



A true health monitor with multiple parameters

5 SpO₂

SpO ₂ Display Range	:	0 ~ 99%
SpO ₂ Measuring Range:		70 ~ 99 %
SpO ₂ % Resolution	:	1%
SpO ₂ % Accuracy	:	70% ~ 99% ±3%; ≤69% unspecified
Antenna Type/Pattern	:	Internal
Frequency Range	:	2402 to 2480 Mhz
LED Wavelengths and Output Power	:	Red: approximately 660nm @0.8mW maximum average Infrared: approximately 940nm @0.8mW maximum average



6 Lactate

Test Principle	:	Determination of glucose in fresh capillary whole blood
Assay Method	:	Amperometric Biosensor
Sample	:	Capillary whole blood
Sample Size	:	0.5 µL (500 nanoliters)
Test Time	:	5 Seconds
Result Range	:	0.2 to 25 mmol/L (1.8 to 225 mg/dL)
Measurement Units	:	mmol/L, mg/dL



7 Hemoglobin

Test Principle	:	Determination of hemoglobin in fresh capillary whole blood
Assay Method	:	Impedance Spectroscopy
Sample	:	Whole blood (Capillary, Venous)
Sample Size	:	0.5 µL
Test Time	:	5 Seconds
Result Range	:	0-25.6 g/dL, 0-256 g/L, 0-15.9 mmol/L
Measurement Units	:	g/dL, g/L, mmol/L



8 Ketone

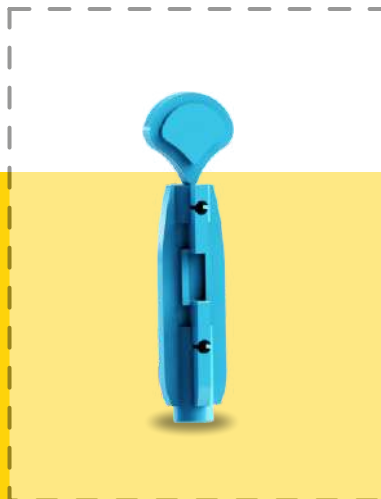
Test Principle	:	Determination of Ketone in fresh Capillary Whole Blood
Assay Method	:	Amperometric Biosensor
Sample Type	:	Capillary Whole Blood
Sample Size	:	0.5 µL
Test Time	:	10 Seconds
Result Range	:	0.0 - 8.0 mmol/L
Hematocrit Range	:	20 - 70%



POCT Consumables



Test Strips



Twisted Lancets



Lancing Device



Safety / Auto Disable Lancets

FUTURE INVESTMENT PLANS

FUTURE INVESTMENT PLANS (EXISTING IP)

Being a Tech driven corporate Sensa Core intends to explore and invest on the following growth opportunities

BLOOD GAS ANALYZER

- USFDA Regulatory Approval which can act as a global gateway for the Blood Gas Analyzer.
- Global Marketing of Blood Gas Analyzers with a direct field force in multiple countries.

ELECTROLYTE ANALYZER

- USFDA Regulatory Approval which can act as a global gateway for the Electrolyte Analyzer.
- Invest in the aggressive sales of Electrolyte Analyzers with a direct field force in multiple countries.

FUTURE INVESTMENT PLANS (IP UNDER DEVELOPMENT)

Being a Tech driven corporate Sensa Core intends to explore and invest on the following new opportunities

HbA1C Meter & Strips

- USFDA Regulatory Approval which can act as a global gateway for the HbA1C Meter.
- Create the manufacturing capacity for this product as a part of our new expansion. (Medical Device Park)
- Expedite all the regulatory requirements.

Hematology Analyzer & Reagents

- Fast track the development and we intend to create manufacturing capacity for this product.
- Create the manufacturing capacity for this product as a part of our new expansion. (Medical Device Park)
- Explore on direct Sales & Service by the time this product is launched. (This was an untouched avenue for us till date)
- Expedite all the regulatory requirements.

BLOOD GLUCOSE METERS & STRIPS

- USFDA Regulatory Approval which can act as a global gateway for the Blood Glucose Meter.
- Development of multiple models of Blood Glucose Meters.
- Retail segment online/offline sales. (Till date we have not ventured)
- WHO-GMP Pre Qualification and MD SAP for this product.
- Raw Material (Especially Electronics) to avoid the shortage due to global crisis. (Ex. Wafer, Capacitors)

HEMOGLOBIN METERS & STRIPS

- WHO-GMP Pre Qualification and MD SAP for this product.
- Institutional sales of Hemoglobin Meter to cater the huge demand being generated by Anemia Mukth Bharath Program.
- Development of Hb Meters with multiple technologies. (To capture different segments. Ex. Blood Banks with absorbance technology)
- Retail segment online/offline sales. (Till date we have not ventured) (FMCG)

UPCOMING PRODUCTS

Hemo Spark+ Meter



HbA1C Analyzer (POCT)



Hematology Analyzer



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SENSA  **CORE**[®]

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