MEDICA

EasyStat®

EasyStat®

easy inside and out

- Medica's EasyStat analyzer measures pH, PCO_2, PO_2, Na^+, K^+, Ca^{++} or Cl^- and Hct, and calculates additional parameters. Patient parameters, including FIO_2, patient ID, patient temperature, $\%FIO_2$, drawing site and other information can be entered using the digital keypad and integrated with patient results. Measured and calculated results are displayed and printed

- EasyStat focuses on the laboratory's need to deliver sample results economically and efficiently

- The sophistication and performance required by today's busy, demanding health care environment have been packaged in a new compact format with a small footprint to save space

- Liquid calibrants are packaged in a convenient reagent module, eliminating gas tanks

- All components are combined into three simple modules, easily accessible by the user. Routine maintenance is limited to the replacement of electrodes and a single pump tube.

- Simple menus guide the user through analyzer operation

- Unique electrode design with no membranes to change, combined with a reagent module with over 1,000-sample capacity ensure economical operation and low cost per sample

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HOME MENU
1 ANALYZE SAMPLE
2 ANALYZE QC
3 CALIBRATE
4 DAILY CLEANER
5 SECOND MENU
```

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DIAGNOSTICS
1 TEST COMPONENTS
2 TEST FLUIDICS
3 SENSOR STATUS
4 PRIME FLUIDS
5 PRINT mV's
```
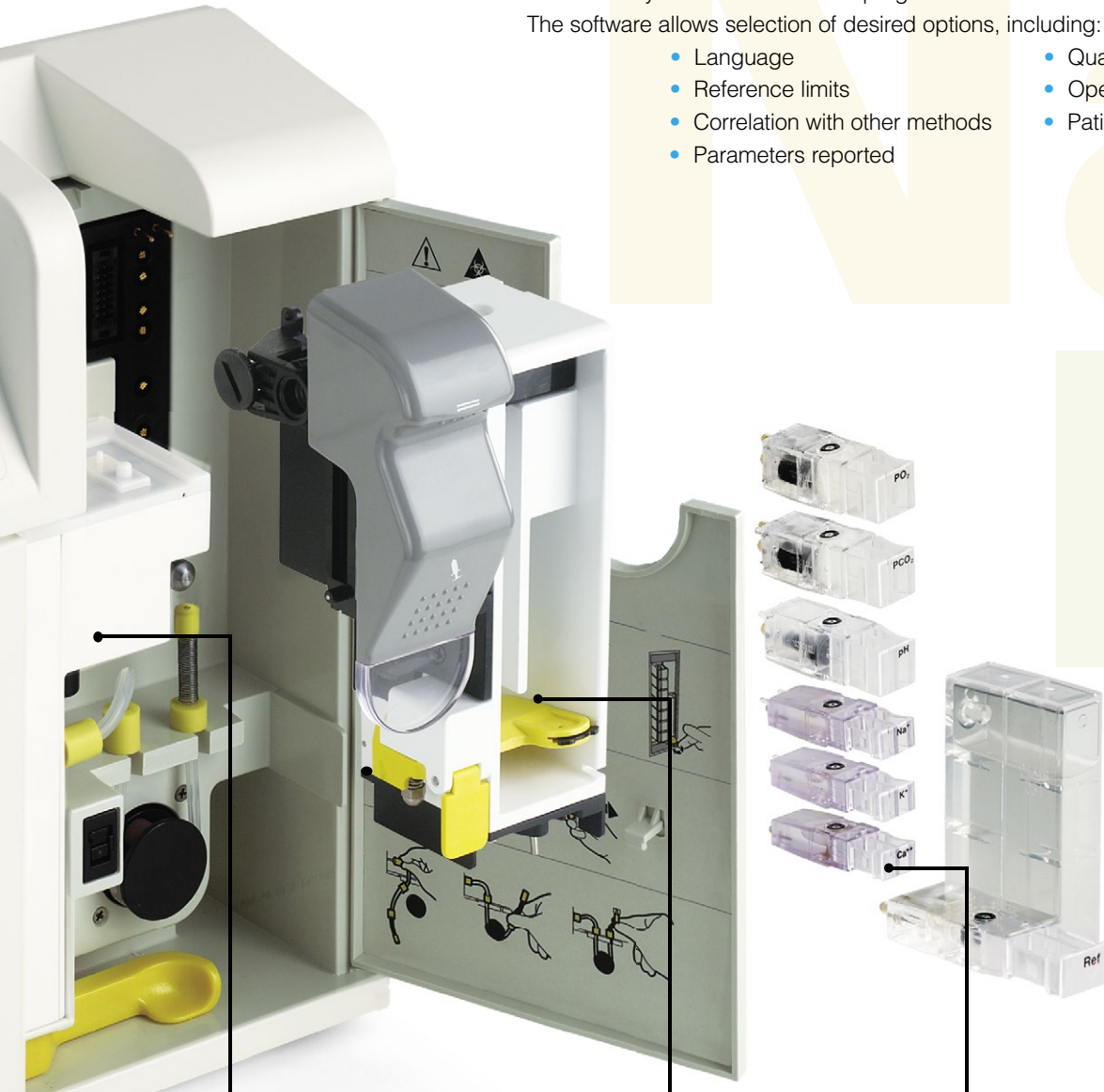
```
SETUP MENU
1 USER OPTIONS
2 CONFIGURATION
3 PRINTER OPTIONS
4 SET REFERENCE LIMITS
5 PATIENT INFORMATION
6 DELETE DATA
```

Flexible Software

Flexible EasyStat software can be programmed to conform with the lab's established practices.
The software allows selection of desired options, including:

- Language
- Reference limits
- Correlation with other methods
- Parameters reported

- Quality Control limits
- Operator ID
- Patient data

Valve Module selects calibrants and rinse solutions

Sensor Module contains universal sampler with self-wiping probe for convenience and safety

Maintenance-free **Electrode** design permits fast, fail-safe installation

...*Easy* inside

EasyStat can be used and maintained by anyone, anytime, anywhere

- Removal of the three plug-in modules — Reagent Module, Sensor Module and Valve Module — is accomplished without tools.

- Medica's integral membrane design means that electrodes are disposable and require no maintenance. Electrodes snap in and out for easy replacement.

- Sample path has been simplified—only one length of pump tubing requires periodic replacement.

- Innovative design simplifies maintenance, addressing the needs of the remote laboratory which has limited access to technical service personnel. Diagnostic software displays component status, assuring quick troubleshooting. Modularity makes assembly and disassembly quick and easy. There is no need for expensive service contracts.

Comprehensive management of patient, quality control and maintenance data

- The EasyStat quality control program calculates and stores complete statistics for the last 31 days of quality control results at each of three levels. A printed Levey-Jennings chart visually identifies trends.

- The data management program compares all patient results with ranges stored in memory and flags out-of-range results. Results are stored in memory for up to 64 patients.

- Exchange of components, calibration and other events are documented for regulatory compliance.

- Bar code scanner option permits rapid, accurate input of patient, operator and QC data.

Self-contained Reagent Module contains liquid calibrants and collects all waste

...Easy outside

Blood gas analyzer operation has never been simpler

- The Universal Sampler adapts to both syringe and capillary samples without adaptors. The sample probe's self-wiping feature provides convenience, sample integrity and user safety.

- The simple, yes/no user-prompting menu makes rapid training of new personnel possible.

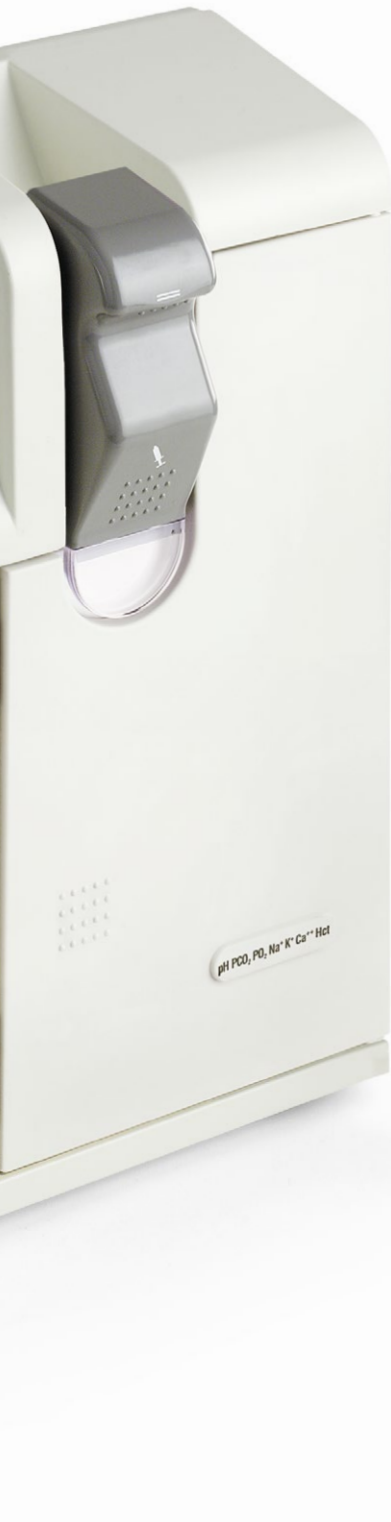Syringe Sampling

Capillary Sampling

Compact Reagent Module for convenience, economy and safety

Bulky gas tanks are replaced with liquid, tonometered calibrants, packaged in a convenient Reagent Module that also collects waste, protecting the user from biological hazards. The EasyStat automatically tracks date code and calibrant usage with the Reagent Module's solid state memory. Operation without interruption is assured.

Portable

Light weight design with optional handle allows use in any setting.

Specifications

MEDICA

CLIA Classification:	Moderate complexity
Sample Type:	Whole blood
Sample Size:	120 μL Syringe mode/95 μL Capillary mode

Measured Parameters and Limits

PO_2	5 − 700 mmHg
PCO_2	5.0 − 150.0 mmHg
pH	6.500 − 8.000 pH units
Hct	10 − 70%
Na^+	80 − 200 mmol/L
K^+	1.0 − 20.0 mmol/L
Ca^{++}	0.25 − 5.00 mmol/L
Cl^-	50.0 − 150.0 mmol/L

Calculated Parameters

THb (Total Hemoglobin)	3.3 − 23.3 g/dL
pH (T) (pH temperature corrected)	
PCO_2 (T) (PCO_2 temperature corrected)	
PO_2 (T) (PO_2 temperature corrected)	
TCO_2 (Total Carbon dioxide)	0 − 50 mmol/L
HCO_3^- (Bicarbonate)	0 − 50 mmol/L
BE_b (Base Excess in blood)	-25.0 to 25.0 mmol/L
BE_{ecf} (Base Excess in extracellular fluid)	-25.0 to 25.0 mmol/L
SBC (Standard Bicarbonate)	0 − 50 mmol/L
$\%SO_{2c}$ (Oxygen Saturation)	40.0 − 100.0% (calculated at normal P50)
CtO_2 (Oxygen Content)	3.0 − 30.0 mL/dL
$A\text{-}aDO_2$ (Alveolar arterial oxygen gradient)	0 − 700 mmHg
RI (Respiratory Index)	0.0 − 70.0
Ca^{++} (7.4) (for 7.2<pH<7.6)	0.22 − 5.58 mmol/L

Input Parameters

Patient Temperature	(20 − 45°C)	Time Drawn	(00:00)
Hemoglobin	(3.0 − 30.0 g/dL)	Sample Source	(arterial, mixed venous, venous)
FIO_2 (Fraction Inspired Oxygen)	(10 − 100%)	Sample Type	(radial, brachial, femoral, arterial line)
Patient ID	(14 digits)		
Operator ID	(14 digits)		

Sample Temperature Control:	37.0°C ± 0.2°C
Ambient Conditions:	15–30°C (59-86°F), 500–800 mmHg (max 15 PSI)
	5–85% relative humidity, non-condensing
	atmospheric air environment (21% O_2)
Analysis Time:	<120 seconds
Data Storage:	64 Patient results with Operator ID, Patient ID, Date and Time
	QC — up to 93 results for each Level (Blood Gas/Electrolytes 1, 2, 3, Hct 1, 2)
Calibration:	Automatic or On-Demand
Input/Output:	Numeric keypad, graphic display, 27 column thermal line printer, barcode reader port, RS-232 computer interface port
Power:	100/115~VAC, 50–60 Hz, 0.8 A or 220~VAC, 50–60 Hz, 0.4 A
	Refer to the chassis serial number label for the voltage that has been factory set on your analyzer, and for proper fuse replacement.
Size & Weight:	14.5" W x 12.5" H x 7.0" D (37cm W x 32cm H x 18cm D), 17 lbs (7.7 kg) with Reagent Module

*Cl^- Available in select countries

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