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ANALYTICAL EXCELLENCE...

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### Blood Gas & Electrolyte Analyzer MA-800 / MA-800A

#### FEATURES:

- 10.4" TFT Touch Screen
- Infrared human detector
- Easy to use, fast data input
- Cost-saving standby mode
- Calibrants cartridge

#### Models:

MA-800: pH(CH), pCO<sub>2</sub>, pO<sub>2</sub>, K, Na<sup>+</sup>, Cl<sup>-</sup>, Ca<sup>++</sup>, Hct, B.P.

MA-800A: pH, pCO<sub>2</sub>, pO<sub>2</sub>, Hct, B.P.



**MEASURED PARAMETERS:**

| Test Items       | Measuring Range | Unit     |
|------------------|-----------------|----------|
| pH(CH)           | 6.000~9.000     | pH Scale |
| pCO <sub>2</sub> | 1.607~26.67     | Kpa      |
|                  | 8.0~200.0       | mmHg     |
| pO <sub>2</sub>  | 0~106.7         | Kpa      |
|                  | 0~800.0         | mmHg     |
| K                | 0.5~15.0        | mmol/L   |
| Na <sup>+</sup>  | 20.0~200.0      | mmol/L   |
| Cl <sup>-</sup>  | 20.0~200.0      | mmol/L   |
| Ca <sup>++</sup> | 0.3~5.0         | mmol/L   |
| Hct              | 12.0~65.0       | %        |
| B.P.             | 500~800         | mmol/L   |

| Derived (Calculated) Parameters |   |
|---------------------------------|---|
| pH(TC)                          | pH Temperature Corrected                |
| pCO <sub>2</sub> (TC)           | pCO <sub>2</sub> Temperature Corrected  |
| pO <sub>2</sub> (TC)            | pO <sub>2</sub> Temperature Corrected   |
| TCO <sub>2</sub>                | Total Carbon Dioxide                    |
| HCO <sub>3</sub>                | Actual Plasma Bicarbonate               |
| BEb                             | Base Excess in Blood                    |
| BEecf                           | Base Excess Inextra Cellular Fluids     |
| SBC                             | Standard Bicarbonate                    |
| sO <sub>2</sub> %               | Calculated Oxygen Saturation Percentage |
| Ca <sup>++</sup> (7.4)          | Ionized Calcium Normalised to pH 7.4    |
| TCa                             | Total Calcium Content                   |
| AG                              | Anion Gap                               |
| RI                              | Respiratory Index                       |
| AaDO <sub>2</sub>               | Alveolar Arterial Oxygen Gradient       |
| O <sub>2</sub> SAT              | Oxygen Saturation                       |
| tHb(c)                          | Hemoglobin (Calculated)                 |

**MODEL SPECIFICATIONS:**

| <b>Model</b>         | <b>MA-800 / MA-800A</b>   |
|----------------------|---|
| Sample               | Whole blood, Serum, Plasma, Dialysate, CSF                              |
| Input Parameters     | Patient Temperature, Hemoglobin, FiO <sub>2</sub> , Barometric pressure |
| Analysis Time        | <90s  |
| Sample Volume        | 120μl (whole blood), 50μl (capillary blood)                             |
| Calibration          | Automatic, One-point and Two-point                                      |
| Data Storage         | More than 5 000 results   |
| Display              | 10.4" TFT touch screen  |
| Battery              | 24V Ni-MH battery 3.0Ah   |
| Printer              | Built-in thermal printer  |
| Barcode Reader       | Multiple kinds, barcode type  |
| Interface            | Serial line RS-232  |
|                      | TCP/IP interface  |
|                      | USB port  |
|                      | Integrated barcode reader   |
| Working Conditions   | Power Supply: 100-220V, 50/60 Hz  |
|                      | Temperature: 15~30°C  |
|                      | Storage Environment: 5~45°C   |
| Package Size (W*D*H) | 920*650*610mm (Main instrument); 586*460*380mm (Reagent)                |
| Gross Weight (kg)    | 58.2 (Main instrument); 9.7 (Reagent)                                   |