

# i-Smart 300

## Blood Gas Analyser

The i-Smart 300 Blood Gas Analyser delivers critical patient results quickly and simply, requiring zero maintenance.



## Accurate Results in 50 Seconds

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# i-Smart 300

## Blood Gas Analyser

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### Features

- Fast, accurate analysis
- Tests pH,  $p\text{CO}_2$ ,  $p\text{O}_2$ ,  $c\text{Na}^+$ ,  $c\text{K}^+$ ,  $c\text{Ca}^{2+}$ ,  $c\text{Cl}^-$ , HCT
- 80 $\mu\text{l}$  sample volume
- Results in 50 seconds
- Large LCD touch screen
- Battery or mains powered
- No user maintenance
- Automatic calibration
- All-in-one cartridge contains electrodes, consumables, waste and sample probe
- Small and portable
- System connectivity - integrates with LIS/HIS



- CE marked
- IVDD (Directive 98/79/EC) compliant

### Specifications

#### Operating Parameters

##### Measured Parameters

pH: 6.500 ~ 8.000  
 $p\text{CO}_2$ : 5.0 ~ 150.0 mmHg  
 $p\text{O}_2$ : 5 ~ 700 mmHg  
 $c\text{Na}^+$ : 80 ~ 200 mmol/L  
 $c\text{K}^+$ : 1.0 ~ 20.0 mmol/L  
 $c\text{Ca}^{2+}$ : 0.25 ~ 5.00 mmol/L  
 $c\text{Cl}^-$ : 50 ~ 150 mmol/L  
 HCT: 10 ~ 70%

##### Derived Parameters

pH(T),  $p\text{CO}_2$ (T),  $p\text{O}_2$ (T),  $ct\text{CO}_2$ ,  
 $c\text{HCO}_3^-$ ,  $c\text{HCO}_3^-(\text{std})$ , BE(ecf),  
 BE(B), Anion gap(K), ctHb,  $s\text{O}_2$ ,  
 $\text{Ca}^{2+}(7.4)$ ,  $p\text{O}_2(\text{A-a})$

##### Sample Type

Heparinised whole blood

##### Sample Volume

80 $\mu\text{l}$

##### Analysis Time

50 seconds

##### Calibration

Automatic or manual

#### Cartridge

##### Pack Sizes

50 tests  
 100 tests  
 200 tests  
 300 tests

##### Storage Conditions

15°C ~ 25°C

##### Components

- Sensors
- Cal 1, Cal 2
- Reference solution
- Sampler & waste bag
- Valve & tubing

##### Dimensions/Weight

182 (W) x 148 (H) x 100 (D) mm  
 1.7kg

#### Instrument

##### Computer

1.6 GHz processor  
 2GB RAM  
 8GB flash storage

##### Operating System

Windows® Embedded standard 7

##### Display

8" TFT LCD touch screen

##### Printer

2" thermal printer (built-in)

##### Dimensions/Weight

257 (W) x 394 (H) x 252 (D) mm  
 7.1kg

#### Power Requirements

##### Voltage

100 ~ 240 VAC

##### Frequency

50/60Hz ( $\pm 10\%$ )

##### Power Adaptor

AC-DC power supply  
 (Output: DC24V, 2.7A)

##### Battery Operation

Max. 2 hours (Li ion cells)

##### Interface

- Built-in barcode scanner
- 4 USB ports
- Serial (RS232) port
- Ethernet (RJ45) port
- VGA port (for external screen)

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