

# ABL800 FLEX analyzer



Simplicity and accuracy  
in blood gas testing



# The facts about the ABL800 FLEX

## Color touch screen

- Intuitive user interface
- Adjustable screen
- Configurable interface for custom profiles
- Parameter bar provides analyzer status at a glance
- Multimedia tutorials
- Onboard help system

## Inlet

- Sample volume down to 35  $\mu$ L
- High sample success rate of capillary samples
- Micromodes ensure accuracy of samples as small as 35  $\mu$ L

## FLEXQ

- Automatic sample mixing and measuring
- Measures up to three successive samples
- Queue function saves time and reduces risk of errors

## Test menu

pH |  $p\text{CO}_2$  |  $p\text{O}_2$  |  $s\text{O}_2$  | ctHb |  $\text{FO}_2\text{Hb}$  |  $\text{FCOHb}$  |  $\text{FMetHb}$  |  $\text{FHHb}$   
 $\text{FHbF}$  |  $\text{cK}^+$  |  $\text{cNa}^+$  |  $\text{cCa}^{2+}$  |  $\text{cCl}^-$  | cGlu | cLac | cCrea | ctBil



## Connectivity

- Full LIS/HIS connectivity
- All common communication protocols, including POCT1-A
- Complete data capture through continuous synchronization
- Remote control of decentral analyzers from central location

## Analyzer and PC workstation in one

- Windows® XP operating system
- USB ports for easy data back up and connection of flash drives, keyboards and other peripherals
- Automatic data archiving

## Analytical performance

- 128 wavelengths for full CO-oximetry
- Fully automated micromode eliminates risk of user-induced bias or loss of accuracy with very small samples
- Interference-protected glucose, lactate and creatinine results

## 1st automatic-enabled

- Automatic patient-sample match at the bedside
- Test result is automatically linked to the correct patient
- No risk of mixups



# Simplicity and accuracy in blood gas testing

The ABL800 FLEX provides superior analytical performance in the measurement of pH, blood gases, electrolytes, metabolites and full oximetry.

Because a number of steps normally associated with blood gas testing are automated on the ABL800 FLEX, the analyzer provides ease of use and high throughput for busy labs and high-volume point-of-care settings.

## The ABL800 FLEX provides

### Simplicity

- Intuitive user interface
- Automated measurements
- Automatic patient-sample match with 1st automatic
- Results quickly available where needed
- Minimum maintenance



### Accuracy

- 128 wavelengths for full CO-oximetry
- Interference-protected glucose, lactate and creatinine results
- Reliable results – also from very small samples
- Automated quality control



# Simplicity in blood gas testing

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## **Intuitive user interface**

The user interface on the ABL800 FLEX can be configured to fit different custom profiles. A parameter bar provides analyzer status at a glance, while multimedia tutorials and an onboard help system provide immediate assistance at the touch of the screen.

## **Automated measurements**

The ABL800 FLEX automatically mixes and measures up to three successive samples, saving you time and ensuring sample integrity. Just place the sample on FLEXQ module and the instrument does the rest.

## **Automatic patient-sample match with 1st automatic**

The prebarcoded *safePICO* samplers and the FLEXLINK software automatically link patient and sample IDs at the bedside. Once the sample is placed on the analyzer, it is automatically recognized. The test result is matched to the correct patient without the risk of mixups.

## **Results quickly available where needed**

The ABL800 FLEX offers full IT connectivity through RADIANCE. Correctly identified results are automatically reported to wherever needed: the lab, the patient's bedside monitor or the Clinical Information System. Full data capture is secured through continuous data synchronization between analyzers and LIS/HIS.

## **Minimum maintenance**

The ABL800 FLEX offers high reliability and maximum uptime with few calibrations and limited maintenance. Connect the ABL800 FLEX to RADIANCE and get real-time analyzer surveillance and management from any remote location.





# Accuracy in blood gas testing

## 128 wavelengths for full CO-oximetry

The ABL800 FLEX ensures a continuous absorption spectrum of hemolyzed blood sample by applying 128 wavelengths to scan the measuring range from 478-672 nm. This allows the detection and correction of interfering substances, e.g. clinically important dyes, HbF, SHb, bilirubin, intralipid and HiCN, helping to ensure a superior analytical quality of CO-oximetry results. (FIG. 1)

## Interference-protected glucose, lactate and creatinine results

The three-layer membrane on the glucose, lactate and creatinine sensors provide protection against interferences and helps secure fast and reliable results. Electrochemical substances that can interfere, e.g. Paracetamol-4-acetamidophenol, are delayed and will not pass through the membrane during the 30-second measuring period. (FIG. 2)

## Reliable results – also from very small samples

The FLEXMODE on the ABL800 FLEX enables the analysis of very small samples from capillary tubes down to 35  $\mu$ L. Based on the sample size, FLEXMODE automatically determines how many parameters can be reported without compromising the quality of results.

## Automated quality control

On the ABL800 FLEX, quality control is automated, saving time and ensuring reliability of test results. Extensive automatic lockout options, password controls and remote monitoring of the system provide better control of testing performed at the point of care.

FIG.1: 128 wavelengths for full CO-oximetry

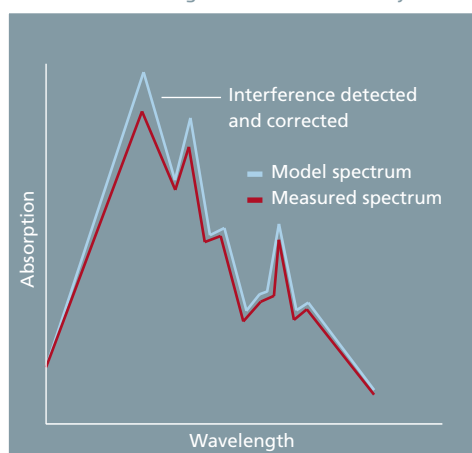
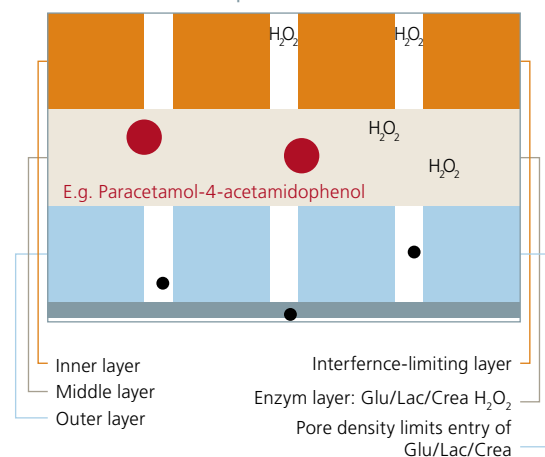


FIG. 2: Interference-protected results



# ACUTE CARE TESTING