

# ABL80 FLEX – BASIC version

## Specifications



# Measured parameters

Type	Parameter	Units	Measuring range	Cassette type	
				Full panel	BG/Hct
pH	pH		6.00–8.00	x	x
Blood Gas	$p\text{CO}_2$	mmHg	0–150	x	x
		kPa	0.0–20.0		
	$p\text{O}_2$	mmHg	0–760	x	x
		kPa	0.0–101.3		
Electrolytes	$\text{cCa}^{2+}$	mmol/L	0.00–5.00	x	
		mEq/L	0.00–10.00		
		mg/dL	0.00–20.00		
	$\text{cCl}^-$	mmol/L	0–250	x	
		mEq/L	0–250		
	$\text{cK}^+$	mmol/L	0.0–20.0	x	
		mEq/L	0.0–20.0		
	$\text{cNa}^+$	mmol/L	0–210	x	
mEq/L		0–210			
Hematocrit	Hct	%	0–85	x	x

The *Measuring range* is defined as the limits within which the analyzer is capable of displaying parameter values.

## Derived parameters

$\text{cHCO}_3^-(\text{P})$	ctHb	$\text{ctO}_2$
cBase(B)	$\text{ctCO}_2(\text{P})$	$\text{sO}_2$
cBase(B,ox)	$\text{ctCO}_2(\text{B})$	$p\text{O}_2(\text{A})$
cBase(Ecf)	$\text{cCa}^{2+}(7.40)$	$p\text{O}_2(\text{a/A})$
cBase(Ecf,ox)	Anion Gap ( $\text{K}^+$ )	$p\text{O}_2(\text{A-a})$
$\text{cHCO}_3^-(\text{P,st})$	Anion Gap	RI

## Sensor cassette

Sample volume	~ 70 $\mu\text{L}$
Cycle time	~ 100–115 sec
Shelf life	120 days
Storage temperature	5–25 °C / 41–77 °F

## Solution pack

In-use lifetime	Up to 60 days maximum, dependent on number of patient and QC samples and frequency of calibration. Standby mode available to conserve calibration solution and maximize in-use lifetime.	
Shelf life	150 days	
Storage temperature	5–25 °C / 41–77 °F	
	<b>Solution 1</b>	<b>Solution 2</b>
Fluidic cycles	450	110

## Calibration data

Details	Default interval	Interval options	Duration
Automatic: 1-point cal	With measurement	-	-
Automatic: 2-point cal	8 hours	Every 2, 4 or 8 hours or manual	2 min.

## Model available in both Full Panel & BG/Hct

SC80	25/60	50/60	100/60	200/60	300/60	300/30	300/15	600/15
Patient tests	25	50	100	200	300	300	300	600
In-use lifetime (days)	60	60	60	60	60	30	15	15
Tests per day	0.4	0.8	1.7	3.3	5	10	20	40



# General information

## Hardware

### Computer specifications

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Microsoft Windows® XP Embedded operating system  
Minimum 1 GB hard drive  
ETX single board CPU  
Minimum 512 MB EDO-RAM

### Interface

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Barcode reader  
Serial line RS232  
RJ45 Ethernet port  
2 USB 1.1  
PS2 keyboard

## Software

### Correlation correction

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Standard correlation mode: For whole blood; all parameters available  
Other fluids mode: For all parameters except Hct  
Hemodilution mode: For the Hct parameter only

### Data capacity

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Patient results: 500  
Manual QC results: 500  
2-point cal. results: 500  
Event records: 1500  
Security records: 1500  
User IDs: Unlimited

### Printer display options

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Autoprint (on/off)  
Select derived parameters  
Five lines for custom header  
Temperature corrected results  
QC ranges with results  
Select input variables  
Reference ranges with results  
Analyzer name (user-defined)  
Edit log

## Additional information

### Dimensions

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Width	22 cm	9 in
Height	40 cm	16 in
Depth	28 cm	11 in
Weight	8.5 kg	19 lbs

### Printer

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Optional custom header:  
25 characters max per line  
Thermal sensitive  
Paper width: 80mm ± 1.10

### Display

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Full visual graphic array (VGA)  
Full active Thin Film Transistor (TFT)  
800 x 600 resolution  
Resistive touch screen

### Security and QA features

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Seven programmable user-access levels  
Unlimited User ID and access-level verification  
Automatic lockout of parameter that fails QC or option to inactivate individual sensors for failed calibration  
QC statistics and on-board Levey-Jennings plots  
Air-in-sample detection  
Mandatory input fields

### Communication

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#### HIS/LIS communication

High-level protocols:  
ASTM (E1394-97)  
ASTM 6xx  
HL7 (Version 2.2/2.5)

Low-level serial protocols:  
ASTM (E1381-95)

Low-level network protocols:  
TCP/IP

#### RADIANCE communication

Interface via Ethernet adapter

### Other

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Startup time	After sensor cassette change: ~ 5 min
Operating environment	12–28°C / 54–82°F
Altitude correction	2290 m/7513 feet above sea level
Power	100–240 VAC, 50/60 Hz, 130 VA
Thermostat control	37.0°C ± 0.2 within 10 sec



# ACUTE CARE TESTING