

# BEACONIC B200 Practical Solution for Automation

## Technical specification

General information :

Machine type : Random access

Test speed : Constant 200 test/hour (Mono reagent or double reagent)

Test principle : Colorimetric method, turbidimetry

Test methods : 1 point end, 2 point end, Fixed-Time, Kinetics

Calibrator type : Linear & nonlinear

1 Point Linear, 2 Point Linear, Exponential

Logi - 10g, 3P, 4P, Multi-point Linear, Spline, Line Graph

## Sample unit

Sample tray : 40 sample position

Sample : Micro cup, sample cup, primary tube & blood collection tube (Φ 12-13)mm \* (25-100)mm

Sample volume : 2-30μl, step by 0.1μl

Sample probe : Liquid surface detection, timely tracking for liquid volume. Collision Protection

## Reagent unit

Reagent tray : 40 reagent positions

(40 for R1 & R2), Non-stop cooling system with peltier pad inside, 24 hours 2°C-14°C.

Reagent volume : 10-300μl, step by 1μl

## Reaction unit

Reaction tray : 44 single reaction pyrex cuvettes, perfect transmittance

Reaction volume : 150μl-330μl

Temperature : Solid state heating system (37±0.1°C)

## Mixing system

Mixer : Paddle-type mixing, effective and reducing carryover

## Optical system

Light source : Halogen lamp

Wavelength : 340nm; 405nm; 450nm; 505nm; 546nm; 578nm; 630nm; 700nm (4 more options)

Absorbance range : 0-4.0 Abs

Resolution : 0.0001 Abs

## Operating system

Operation system : Windows 7, Windows 8, Windows 10

Report printing : 6 formats option,

support custom formats

Interface : pattern, TCP/IP network interface

## Working conditions

Water consumption : 8L/hour (maximum)

Dimension : 780mm \* 565mm \* 1120mm (L\*W\*H)

Weight : 80kg

## Power Supply

220V ± 10%, 50/60 Hz, 2000VA,

Earthing voltage < 5V online ups (230V)

with isolated transformer 2KVA

# BEACONIC B200



## Practical Solution for Automation

- Fully Automated Random Access Biochemistry Analyzer
- Throughput : 200 test/hour with double reagent
- On board refrigeration and laundry system
- Easy availability of system packs



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40 Sample Position & 40 Reagent Position

On board refrigeration

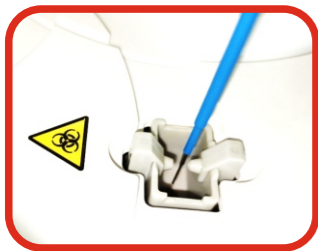
Barcoded reagent system



High efficiency pyrex cuvettes

Individually replaceable cuvettes

Solid state heating system (37±0.1°C)



External and internal washing

Waterfall washing station of probe

Optimizing probe cleaning to avoid carry over



Teflon coated mixer

Ensure no water dropping (reduces carryover)

Homogenous mixing for accurate results



Onboard lamp window

Lamp alignment not required

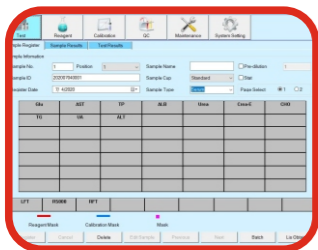
Intensity measured Halogen lamp



Durable visible ceramic piston

Accurate dispensing with 0.1 µl step

Minimum maintenance



Windows XP, Windows 7, Windows 8, Windows 10

Rejected Cuvette Memory

Quality control L-J curve, westgard and cum. mean



**Practical Solution  
for Automation**



CERAMIC PISTON : Precise and accurate pipetting (as low as 2µl) long life ceramic piston, *save time & cost*

BLACK BOX OPTICAL SYSTEM : Dust/Moisture Proof covered optical system increase efficiency, *save time & cost*

LAMP WINDOW : Easy to change long life lamp minimize downtime, *save time & cost*

CUVETTES : High precision, long lasting Pyrex cuvettes, individually replaceable, *save time & cost*

INSTRUMENT REAGENT SYNERGY : Barcoded System, Auto programming /positing of reagent. *save time & cost*

COMPLETE SOLUTION : System pack reagent, controls, calibrator. *Convenient inventory management*

COST PER TEST : Proven Cost effectiveness

<b>HbA1c</b>	<b>HDL</b>	<b>ASO TURBI</b>	<b>CRP TURBI</b>	<b>RF TURBI</b>	<b>LDL</b>	<b>LDH</b>
<b>ALBUMIN</b>	<b>GLUCOSE</b>	<b>AMYLASE</b>	<b>LIPASE</b>	<b>BILIRUBIN (T&amp;D)</b>	<b>SGOT</b>	<b>SGPT</b>
<b>CALCIUM</b>	<b>CHOLESTEROL</b>	<b>UREA UV</b>	<b>CREATININE (ENZYMATIC)</b>	<b>MAGNESIUM</b>	<b>TOTAL PROTEIN</b>	<b>URIC ACID</b>
<b>PHOSPHORUS</b>	<b>CK-NAC</b>	<b>ALP</b>	<b>TG</b>			