

cobas b 221 POC system

Product specifications

Measured parameters

Blood gas module	Total specified range
pH	6.0 – 8.0
PCO ₂	4.0 – 200 mmHg
PO ₂	0 – 800 mmHg
Electrolyte module	
Na ⁺	20.0 – 250 mmol/L
K ⁺	0.2 – 20 mmol/L
Ca ²⁺	0.1 – 4.0 mmol/L
Cl ⁻	20.0 – 250 mmol/L
Hct	10 – 80 %
Hemoglobin module	
tHb	3 – 25 g/dL
SO ₂	50 – 100 %
Metabolite module	
Glu	0.5 – 40 mmol/L
Lac	0.2 – 20 mmol/L
Urea (BUN)	0.5 – 30 mmol/L
CO-oximetry module	
tHb-COOX	3 – 25 g/dL
O ₂ Hb	0 – 100 %
HHb	0 – 100 %
COHb	0 – 100 %
MetHb	0 – 100 %
SO ₂ COOX	0 – 100 %
Bilirubin (neonatal)	3 – 50 mg/dL
Barometric pressure (Baro)	450 – 800 mmHg

Calculated parameters

H⁺, cHCO₃⁻, ctCO₂(P), FO₂Hb, BE, BE_{ecf}, BB, SO₂, P₅₀, ctO₂, ctCO₂(B), pH_{st}, cHCO₃-st, PAO₂, AaDO₂, a/AO₂, avDO₂, RI, Shunt, nCa²⁺, AG, pH^t, H⁺t, PCO₂^t, PO₂^t, PAO₂^t, AaDO₂^t, a/AO₂^t, RI^t, Hct(c), MCHC, BO₂, BE_{act}, Osmolality, OER, Heart minute volume (Q_t), P/F Index



Life needs answers

Sample types

Whole blood, Serum, Plasma, Dialysate, QC material

Calibration

System calibration

1 point-calibration

2 point-calibration

Warm-up

Warm-up

Intervals, Duration

Every 24 hours (programmable 8, 12 or 24 hours)

Every 60 minutes (programmable 30 to 60 minutes)

Every 12 hours (programmable 4, 8 or 12 hours)

Power on with calibration < 43 min

Power fail < 1 min < 2.5 min

Data processing

Industrial standard PC

Monitor

Thermal printer

Barcode scanner

Built-in flat color TFT-LCD 10.4 inch screen (touchscreen)

Built-in 111 mm, graphical capability

Standard accessory

Electrical requirements

Power rating

100 – 240 V (+6 %/ – 10 % permission to tolerance), 200 W, 50/60 Hz autoselecting

Ambient temperature

+15 to +31 °C (59 to 89.6 °F)

Relative humidity, not condensed

15 < T < 31 °C: 20 – 85 %

Options

Built-in AQC

Automatic quality control system, with room for up to 120 QC ampoules

Test certificate

FDA

510(k)

UL

UL3101-1

CE-Conformity

IVD-Directive 98/79/EC (IEC 1010-1 / EN 61010-1 / EN 61010-2-101)

Dimension / Weight

Width

< 51 cm

Height

< 59 cm (in operating situation)

Depth

< 60 cm (with power supply)

Weight (without solutions, without AutoQC)

45 kg

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