

# cobas b 221 POC system

## *Product specifications*

### Measured parameters

Blood gas module	Total specified range
pH	6.0 – 8.0
PCO <sub>2</sub>	4.0 – 200 mmHg
PO <sub>2</sub>	0 – 800 mmHg
Electrolyte module	
Na <sup>+</sup>	20.0 – 250 mmol/L
K <sup>+</sup>	0.2 – 20 mmol/L
Ca <sup>2+</sup>	0.1 – 4.0 mmol/L
Cl <sup>-</sup>	20.0 – 250 mmol/L
Hct	10 – 80 %
Hemoglobin module	
tHb	3 – 25 g/dL
SO <sub>2</sub>	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 <sub>2</sub> Hb	0 – 100 %
HHb	0 – 100 %
COHb	0 – 100 %
MetHb	0 – 100 %
SO <sub>2</sub> COOX	0 – 100 %
Bilirubin (neonatal)	3 – 50 mg/dL
Barometric pressure (Baro)	450 – 800 mmHg

### Calculated parameters

H<sup>+</sup>, cHCO<sub>3</sub><sup>-</sup>, ctCO<sub>2</sub>(P), FO<sub>2</sub>Hb, BE, BE<sub>ecf</sub>, BB, SO<sub>2</sub>, P<sub>50</sub>, ctO<sub>2</sub>, ctCO<sub>2</sub>(B), pH<sub>st</sub>, cHCO<sub>3</sub><sup>-st</sup>, PAO<sub>2</sub>, AaDO<sub>2</sub>, a/AO<sub>2</sub>, avDO<sub>2</sub>, RI, Shunt, nCa<sup>2+</sup>, AG, pH<sup>t</sup>, H<sup>+</sup>t, PCO<sub>2</sub><sup>t</sup>, PO<sub>2</sub><sup>t</sup>, PAO<sub>2</sub><sup>t</sup>, AaDO<sub>2</sub><sup>t</sup>, a/AO<sub>2</sub><sup>t</sup>, RI<sup>t</sup>, Hct(c), MCHC, BO<sub>2</sub>, BE<sub>act</sub>, Osmolality, OER, Heart minute volume (Q<sub>h</sub>), P/F Index



*Life needs answers*

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**Sample types**

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Whole blood, Serum, Plasma, Dialysate, QC material

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**Calibration**

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System calibration

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1 point-calibration

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2 point-calibration

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Warm-up

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Warm-up

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**Intervals, Duration**

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

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Every 60 minutes (programmable 30 to 60 minutes)

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

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Power on with calibration < 43 min

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Power fail < 1 min < 2.5 min

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**Data processing**

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Industrial standard PC

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Monitor

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Thermal printer

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Barcode scanner

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

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Built-in 111 mm, graphical capability

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Standard accessory

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**Electrical requirements**

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Power rating

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Ambient temperature

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Relative humidity, not condensed

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

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+15 to +31 °C (59 to 89.6 °F)

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15 < T < 31 °C: 20 – 85 %

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**Options**

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Built-in AQC

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

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**Test certificate**

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FDA

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UL

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CE-Conformity

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510(k)

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UL3101-1

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

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**Dimension / Weight**

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Width

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Height

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Depth

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Weight (without solutions, without AutoQC)

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**Instrument**

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< 51 cm

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< 59 cm (in operating situation)

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< 60 cm (with power supply)

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45 kg

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Rotkreuz Switzerland  
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