

Convergys[®] liquical

The Fully Modular Platform for

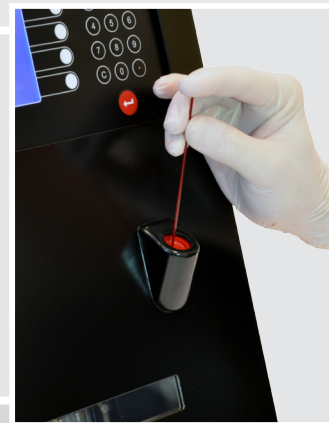
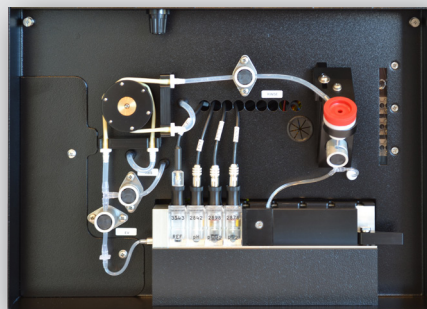
BLOOD GASES, ELECTROLYTES and METABOLITES



- 27 Test Parameters:
pCO₂, pO₂, K⁺, Na⁺, Li⁺, Cl⁻, Ca⁺⁺, pH, Glu, Lac, tHb, Barometric Pressure, HCO₃⁻A, HCO₃⁻S, BE, BEecf (SBE), TCO₂, BB, O₂sat, O₂CT, P50, AaDO₂, Hct, H⁺, AGAP, SHUNT, Acid-base status
- Fully Flexible Calibration Process – Choose between Standard or Economy Modes
- Up to 80 test/hour throughput
- Probe: Whole Blood, Arterial Blood, Urine, Plasma, Respiration Gases
- Fully upgradable
- 4-Level QC with a separate Database
- Modular Electrode Design
- Up to 32000 Test Measurements with QC Data sets
- Individually packed Calibration and Rinse Solutions
- Built-in Thermal Printer
- 5.4" illuminated LCD Display

Convergys[®] liquical

Introducing *Convergys[®] liquical*, a Fully Modular Platform for your Blood Gases, Electrolytes and Metabolites test requirements



- Fully-flexible Integration:**
 Scale up as you go. Install additional test parameters in your existing analyzer as your business requirements grow. No need to buy additional analyzers.
- Fully-flexible Calibration:**
 Choose between Standard and Economy calibration modes to keep your lab costs under check.
- Fully-flexible Test Menu:**
 Select the parameters you need to measure.
- Modular Electrodes Design:**
 Resulting in low consumable costs. Change only the membrane, not the complete electrode!
- Economy:**
 Individually replaceable calibrator and rinse solutions. Economical pack sizes keeping the on-board stability and your workload in mind. Not a drop of reagent goes to waste.
- Illuminated Liquid Flow Path:**
 Easier detection of any blockages or bubbles by a simple visual check.

Specifications for Convergys[®] liquical

Measured Parameters:	pCO ₂ , pO ₂ , K ⁺ , Na ⁺ , Li ⁺ , Cl ⁻ , Ca ⁺⁺ , pH, Glu, Lac, tHb, barometric pressure
Calculated Parameters:	HCO ₃ -A, HCO ₃ -S, BE, BEecf (SBE), TCO ₂ , BB, O ₂ sat, O ₂ CT, P50, AaDO ₂ , Hct, H ⁺ , AGAP, SHUNT, Acid-Base Status
Patient Parameter to enter:	Patient temperature, tHb, FIO ₂ , RQ
Throughput:	Up to 80 tests/hour depending on configuration.
Sampling Method:	Aspiration system adapted for both capillary and syringes, cleaned with Rinse Solution automatically.
Sample Volume:	50-200 µl depending on measured parameters
Sample Types:	Whole Blood, Arterial Blood, Urine, Serum, Plasma, Respiration Gas
Quality Control:	4 QC Level, separate QC database
Calibration:	2-Point calibration in standard and economy modes suited to your working hours
Measurement Temperature of Electrodes and Sensors:	Electrodes and Sensor temperature automatically adjusted to 37.0°C ± 0.2 during measurements
User Interface:	Easy-to-use, menu driven user interface with soft key buttons including 17 buttons, 4 corresponding keys appealing to software functions
Languages available:	English, German
Data Capacity:	2 GB SD Card, 32000 measurements and QC data sets
Host Computer Interface:	RS232 for PC connection
Built-in Printer:	Thermal Printer 56 mm, for paper-rolls up to a diameter of 60mm
Display:	5.4" LCD-display, illuminated, 15-lines, 30 characters
Power Requirements:	115 - 230V / 50/60Hz, 70 AV
Operating Conditions:	+12 to +32°C, 30-90% RH, non condensing
Dimensions and Weight:	(W x D x H) 325 x 432 x 402 mm, approx.13 kg

BLOOD GASES ■ ELECTROLYTES ■ METABOLITES

Parameter Information

Sensor Parameter	Range/Unit	Resolution
pO ₂	0 - 800 mmHg (SI-units selectable)	0.1
pCO ₂	5 - 200 mmHg (SI-units selectable)	0.1
pH	6.000 - 8.000 pH	0.001
Total-hemoglobin (tHb)	3 - 30 g/dl	0.1
Barometric pressure	500 - 900 mmHg (SI-units selectable)	1.0
Na ⁺	20 - 250 mmol/l	1.0
K ⁺	0 - 20 mmol/l	0.1
Ca ⁺⁺	0 - 5.00 mmol/l	0.01
Li ⁺	0.40 -5.00 mmol/l	0.01
Cl ⁻	20 - 250 mmol/l	1.0
GLU	0 - 30 mmol/l (0 - 550 mg/l)	0.1
LAC	0 - 20 mmol/l (0 - 180 mg/l)	0.1
Patient Parameter to Enter		
Patient temperature	13 - 43 °C	0.1
Hemoglobin (tHb)	0 - 30 g/dl (if not measured)	0.1
Fraction of inspired O ₂ (FIO ₂)	15 - 100 % only relevant for AaDO ₂	
Respiratory quotient (RQ)	0.7 - 1.0 only relevant for AaDO ₂	
Calculated Parameter		
Actual bicarbonate (HCO ₃ -A)	10 - 50 mmol/l	0.1
Standard bicarbonate (HCO ₃ -S)	10 - 50 mmol/l	0.1
Base excess (BE)	-25 - 25 mmol/l	0.1
Standard base excess (SBE, BE _{ecf})	-25 - 25 mmol/l	1.0
Total CO ₂ (TCO ₂)	10 - 50 mmol/l	0.1
Buffer base (BB)	0 - 100 mmol/l	0.1
O ₂ saturation of Hb (O ₂ sat)	20 - 100%	0.1
O ₂ content or concentr. (O ₂ CT)	0 - 40%	0.1
pO ₂ at 50% O ₂ -sat. (P50)	10 - 50 mmol/l	0.01
Alveolar to arterial oxygen-tension grade (AaDO ₂)	0 - 800 mmHg	0.1
Hematocrit (Hct)	0 - 100% (only in combination with tHb)	0.1
Hydrogen-ion concentration (H ⁺)	10 - 1000 nmol/l	
Anion-gap (AGAP)	0 - 99 mmol/l	0.1
Shunt (SHUNT)	0 - 50%	0.1
Acid-base status	Relevant diagnosis recorded on printer	

BLOOD GASES ■ ELECTROLYTES ■ METABOLITES

Ordering Information

Analyzers Convergy's® liquical

REF	Model	Description of Parameter's
1100-2100	BG ^{1, 2}	pCO ₂ , pO ₂ , pH
1100-2101	BG +ISE ^{1, 2}	pCO ₂ , pO ₂ , K ⁺ , Na ⁺ , Cl ⁻ , Ca ⁺⁺ , pH
1100-2102	BG+ISE+M+Hb ²	pCO ₂ , pO ₂ , K ⁺ , Na ⁺ , Cl ⁻ , Ca ⁺⁺ , pH, Glu, Lac, tHb

¹ Hb optional, ² Li+ optional



Ordering Information

Reagents

REF	Convergy's®	BG	BG+ISE	BG+ISE+M+tHb	Description
1100-2111	L-Rinse 1	✓	--	--	330 ml Rinse Solution 1 for Blood Gases
1100-2112	L-Rinse 2	--	✓	--	250 ml Rinse Solution 2 for Blood Gases + ISE
1100-2113	L-Rinse 3	--	--	✓	250 ml Rinse Solution 3 for Blood Gases + ISE + Metabolites
1100-2117	L-CAL 1	✓	--	--	130 ml Calibrator Solution 1 for Blood Gases
1100-2118	L-CAL 2	✓	--	--	130 ml Calibrator Solution 2 for Blood Gases
1100-2119	L-CAL 3	--	✓	✓	130 ml Calibrator Solution 3 for Blood Gases + ISE
1100-2120	L-CAL 4	--	✓	✓	130 ml Calibrator Solution 4 for Blood Gases + ISE
1100-2114	L-CAL 5	--	✓	✓	150 ml Calibrator Solution 5 for Blood Gases + ISE
1100-2115	L-CAL 6	--	✓	--	150 ml Calibrator Solution 6 for Blood Gases + ISE
1100-2116	L-CAL 7	--	--	✓	150 ml Calibrator Solution 7 for Blood Gases + ISE + Metabolites

*Convergent Technologies reserves the right to change any of the specifications without prior notice

** Usage of original Convergent Technologies reagents is **MANDATORY**

*** Full specifications are available on request

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