Convergys® liquical

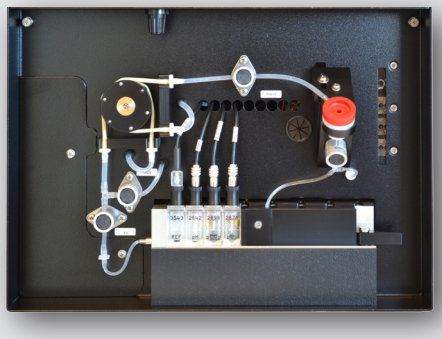
The Fully Modular Platform for BLOOD GASES, ELECTROLYTES and METABOLITES

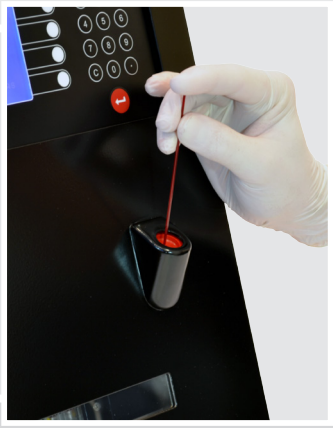
- 27 Test Parameters:
  pCO_2, pO_2, K^+, Na^+, Li^+, Cl^-, Ca^{++}, pH, Glu, Lac, tHb, Barometric Pressure, HCO_3-A, HCO_3-S, BE, BEecf (SBE), TCO_2, BB, O_2sat, O_2CT, P50, $AaDO_2$, Hct, H^+, AGAP, SHUNT, Acid-base status
- Up to 80 test/hour throughput
- Fully upgradable
- Modular Electrode Design
- Individually packed Calibration and Rinse Solutions
- Fully Flexible Calibration Process – Choose between Standard or Economy Modes
- Probe: Whole Blood, Arterial Blood, Urine, Plasma, Respiration Gases
- 4-Level QC with a separate Database
- Up to 32000 Test Measurements with QC Data sets
- Built-in Thermal Printer
- 5.4" illuminated LCD Display

Convergent Technologies

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_2sat, O_2CT, 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

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 AaDO2	
Respiratory quotient (RQ)	0.7 - 1.0 only relevant for AaDO2	
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, BEecf)	-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_2sat)	20 - 100%	0.1
O_2 content or concentr. (O_2CT)	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	

Ordering Information

Analyzers Convergys® 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	Convergys®	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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Convergent Technologies

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