



respons[®]910

AUTOMATED BENCH TOP CLINICAL CHEMISTRY ANALYZER

- :: Flexible
- :: Economical
- :: Easy to use

The automation solution for small laboratories



reddot design award
winner 2009



CHOOSING QUALITY.

The respons[®]910 system has been designed for laboratories with low sample throughput and for bigger laboratories in need of a speciality analyser. respons[®]910 represents the tailored automation solution for these laboratories: featuring ease of use, flexibility, cost-effectiveness, safety and compact size.

Flexible

- :: Minimum throughput of 100 tests per hour
- :: Flexible sample matrix
- :: 30 sample positions plus 2 positions for STAT samples
- :: Low sample volume (important for pediatrics)
- :: Broad measuring ranges
- :: 12 different wavelengths
- :: Long term calibration stability
- :: Unique and convenient respons family package concept
- :: High on board capacity of 30 different methods in mono- or twin-containers
- :: Easy removable sample/reagent tray for storage in refrigerator
- :: Large panel of high-quality clinical chemistry and immunoturbidimetric tests manufactured by DiaSys
- :: Customer oriented menu extension according to your needs

Intra-assay precision & recovery

Parameter	Target TLN* value	Mean TLN* value	Recovery [%]	Target TLP** value	Mean TLP** value	Recovery [%]	CV [%] TLN*	CV [%] TLP**
ALT [U/L]	31.8	32.8	103	105	116	110	1.29	0.87
CHOL [mg/dL]	136	133	97.8	204	208	102	1.51	1.60
CREA-J [mg/dL]	1.23	1.11	90.2	7.73	7.03	90.9	0.83	1.03
CRP [mg/L]	19.8	18.0	90.9	59.8	55.6	93.0	3.08	3.27
DBIL [mg/dL]	0.53	0.51	96.2	2.24	2.37	106	1.82	1.35
IRON [µg/dL]	88.4	84.9	96.0	284	261	92.0	3.35	2.73
GGT [U/L]	27.0	25.1	93.0	83.0	82.2	99.0	2.95	1.10
Lipase [U/L]	42.1	43.8	104	80.9	78.5	97.0	2.99	2.49
TP [g/dL]	5.32	5.48	103	6.39	6.52	102	1.18	1.05
TRIG [mg/dL]	116	113	97.4	172	169	98.0	2.82	2.42
UREA [mg/dL]	40.7	43.1	106	139	147	106	3.76	3.23

(n = 20; Preliminary data)

* TruLab N »Normal« control

** TruLab P »Pathological« control

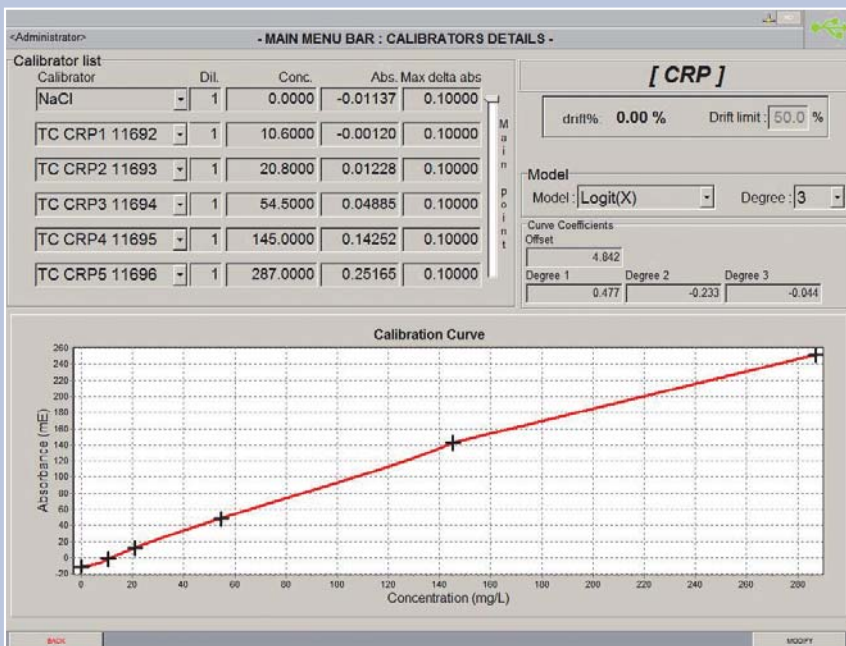
Economical

- :: Competitive price per test ratios
- :: Low service and maintenance expenses
- :: Long term on-board and shelf life stabilities of DiaSys reagents
- :: Broad measuring ranges minimizes retesting

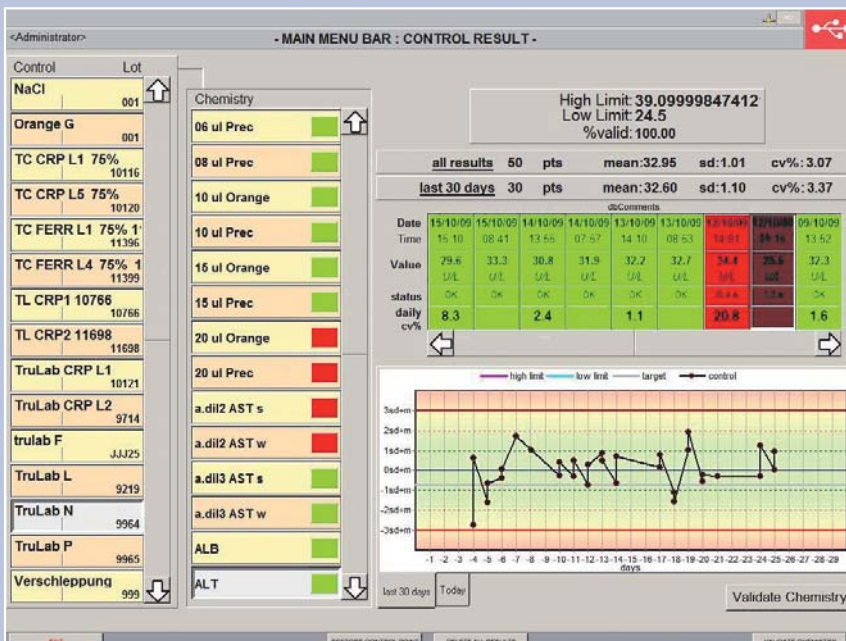
Easy to use

- :: Ready to use reagents
- :: Automatic bar code scan for sample and reagent
- :: Adapter free one-grip loading of reagent containers
- :: Intuitive user interface
- :: Versatile and valuable software functions
- :: Operator friendly and easy to learn

Self-explanatory calibration curve



Intuitive quality control



respons[®] 910

Technical specifications

System type	Bench top clinical chemistry analyzer
STAT-analytics	2 sample positions available
Throughput	150 tests/hour with a cycle time of 12 seconds for mono- and 100 tests/hour for 2 component tests
Ion measurement	Enzymatic tests for Cl, K, Na
Bar code identification	Automatic bar code scan for reagent and sample
Measuring principle	Colorimetry (Rate; End point); Immunoturbidimetric assay
Calibration	Linear, non-linear, multi-point
Combined reagent / sample tray	30 reagent positions plus 30 patient sample positions; easy removable tray for storage in refrigerator
Sample volume	2 – 30 µL
Sample tubes / cups	Primary tubes of 5, 7 and 10 mL and sample cups (1.5 and 2.5 mL)
Sample types	Serum, plasma, CSF, whole blood, urine
Reagent on board capacity	30 different methods in bar coded mono- or twin-containers for adapter-free one-grip loading
Reagent pipetting volume	Reagent 1: 120 – 250 µL Reagent 2: 10 – 130 µL
Reaction temperature	37 ± 0.2 °C
Reaction unit	Temperature controlled rotating tray with 105 disposable plastic cuvettes (37 ± 0.2 °C)
Photometry	12 wavelengths: 340, 380, 405, 450, 480, 508, 546, 570, 600, 660, 700 and 800 nm (mono- and bichromatic)
Photometric linearity and resolution	Linearity: 0 – 3.0 OD Resolution: 0.0001 OD
Water consumption	< 1 liter per hour
System interface	Analyzer to PC: USB 2.0 connectivity bi-directional; PC: Pentium IV or higher
Power source	AC 110/220 V, 60/50 Hz; 300 VA excluding PC / printer / monitor
Dimensions	60 cm (W) x 67 cm (D) x 60 cm (H)
Weight	Approximately 60 kg

These specifications are subject to change without notice



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