

Coatron® A6 Plus

Fully automated dual-Z high speed coagulation analyzer



Made in Germany

REF: 80 920 60

- ▶ Touchscreen Control (optional)
- ▶ Clotting, chromogenic, immunological
- ▶ Dual-Z system (separate probe for sample and reagent)
- ▶ Up to 75 % lower running costs (quarter volume, low service)
- ▶ 45 patient, 34 reagent and 60 Cuvettes (360 tests)
- ▶ Integrated printer
- ▶ Microtubing for reagent and sample
- ▶ Integrated barcode reader
- ▶ Cap piercing
- ▶ STAT orders
- ▶ Patient continuous loading
- ▶ Reflex testing
- ▶ Automatic test calibration
- ▶ Automatic sample dilution
- ▶ Database for up to 1 Mio results (including reaction curve)
- ▶ Test calibration management
- ▶ Each result can be traced back to reagent lot and calibration
- ▶ QC reports with Levey-Jennings graph and Westgard analysis
- ▶ Multi languages
- ▶ Reagent barcode reading
- ▶ Reaction curve monitoring
- ▶ Programmable protocols to adapt new reagent or test
- ▶ Fully bidirectional LIS connectivity (RS232 or network)
- ▶ System monitoring for reagent, consumables and service
- ▶ Small footprint
- ▶ Longlife Service Interval (100.000 tests)
- ▶ System can be configured as "closed" or "opened"

TECO

Innovation in Coagulation

Coatron® A6 Plus

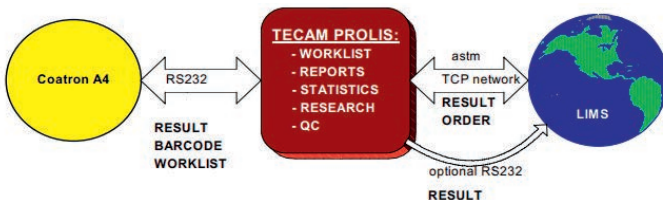
Fully automated dual-Z high speed coagulation analyzer



- | | | |
|--|---|--|
| 1 Keyboard | 7 Pump/syringe
Maximum volume: 2500 µl
Minimum volume: 3 µL
Long life syringe
Easy to replace and maintain | 11 Sample racks
3 racks with 15 positions each, suitable for most common primary tubes. Every position have individual bar code for positive sample identification |
| 2 Graphic display
Blue backlight | 8 Rinse container
Contains 1,25 Liter Rinse solution, enough for appr. 3600 PT tests | 12 Laser barcode scanner
For patient, reagent and service barcodes |
| 3 Cuvette waste drawer | 9 Reagent block
23 positions heated
12 positions cooled | 13 Liquid waste drawer
For collection of liquid waste (optional: external tank system) |
| 4 Cuvette tower
Enough for 360 tests (60 cuvettes) | 10 System block
Wash & Waste position | |
| 5 Printer (back side)
For printout of results, system analysis, test setups etc. | | |
| 6 Liquid handling
Dual-Z high speed robotic system with two probes for sample and reagent. Both with liquid level sensor. Lowest detection limit is 50 µL. Nanoskin coated probes for ensure best accuracy for at least 100.000 tests. | | |

Software for TECO instruments

- ▶ Touchscreen Control
- ▶ Database for 1 Mio results
- ▶ Bidirectional LIS interface
- ▶ Easy worklist management
- ▶ Sample continuous loading
- ▶ STAT orders
- ▶ Automatic patient result and reports
- ▶ Visualize optical reaction curve
- ▶ Test calibration management
- ▶ Levey-Jennings and Westgard rules



An ASTM interface is included, which allows to link with the laboratory information system (LIMS) over LAN network or RS232.

POS.: P02 ☒ STAT

Patient-ID: 2014000014169 ☐ Auto

Name (family,given): Mustermann, Paul ☐ Autodate

Date of birth: 10.01.1917 Age: 97 ☐ QC

Sex: m

Department: Oncology

Bed: 20

Test:

☒ PT ☐ DFIB ☒ APTT ☒ FIB

☐ AT ☐ TT ☐ D-Dimer ☐ HEP

☐ PC ☐ PS ☐ F5 ☐ F8

Define orders with a view clicks or by retrieving from LIS.

Coagulation Data Report
Thrombosis & Hemostasis Research Center

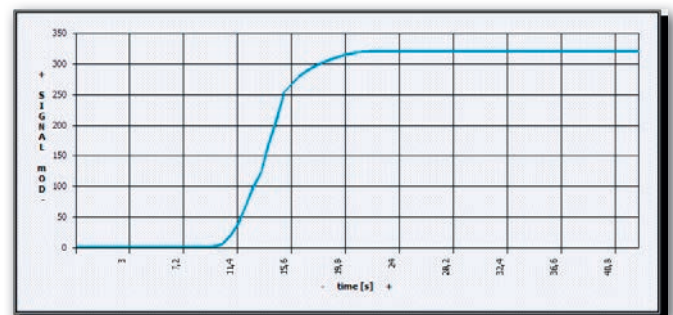
Name:	Patient,44	SID:	1069-4
PID:	44	Age:	57
Birth:	19.06.1957	Bed:	Oncology 2-15
Sex:	m		

Test	Date	Flag	Result	Range	Grafic.
PT (s)	23.09.2014 17:03	A	21,7 s	[10 - 16]	----->
PT (%)	23.09.2014 17:03	A	61,5 %	[70 - 120]	<-----
PT (INR)	23.09.2014 17:03	A	1,37 INR	[0,8 - 1,2]	----->
APTT (s)	23.09.2014 17:03	A	45,2 s	[26 - 38]	----->
D-Dimer (ng/mL)	23.09.2014 17:06	A	989 ng/mL	[0 - 150]	----->
TT (s)	23.09.2014 17:06		19 s	[16 - 24]	---#----

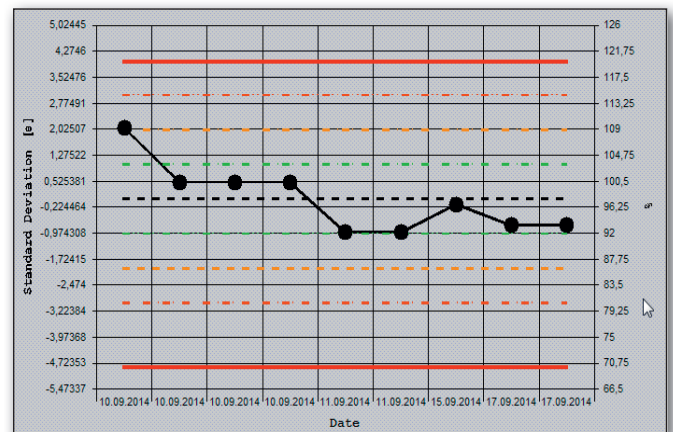
29.10.2014 10:24

Receive results and create a patient report automatically.

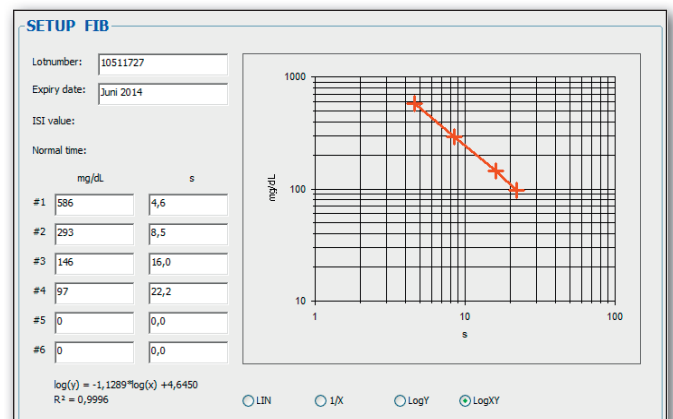
TECAM software combines laboratory data management, quality control and research purpose in one. It connects the Coatron to the LIS. The worklist management allows defining orders much faster and flexible then on the instrument itself. Powerful filter functions will help to create any report. Levey-Jennings graph and Westgard analysis are used for quality control monitoring. Calibration data can be received from analyzer. Each result can be traced back to reagent lot and calibration.



View reaction curve.



Create statistical reports with one click.



Each result can be traced back to calibration data.

Software for TECO instruments

► Recommended system requirements:

CPU 1.5 GHZ, 2 GB RAM, Screen 1280 x 1024.
Tested for Windows™ 7 or higher

► Instrument Interface

Serial RS232 115200B, 8, 1, N
Bidirectional for results including reaction curve and orders

► LIS Interface, unidirectional

Serial RS232 115200B, 8, 1, N
Forward results to LIS

► LIS Interface, ASTM

TCP/IP network, LAN
Bidirectional for forward results to LIS and request orders

► Intuitive handling

One click principle for data collection, filtering, reporting or QC

► Touchscreen Control

Operate with keyboard, mouse or/and touchscreen

► Multi lingual

English, Spanish, Italian, Portuguese, Russian, Greek, Chinese, further languages possible

► Database

Manage over 1 Mio results in one database. Powerful SQL filters will help to find and select any results.

► Traceability

Each result can be traced back immediately to reagent lot and calibration data.

► Calibration data

Test calibration can be import, export, edit for each method.

► Reporting

Make cumulative reports by one click. Use SQL filters to generate specific reports (e.g. results of patient of all PT within the last 30 days).

► Order management

Create, load, save, repeat, receive and send orders. Positive patient identification by barcode validation. USB barcode scanner supported. Up to 9 different test profiles. Preset for up to 6 different QC samples.

► STAT orders

Each order can be marked as STAT and will be executed as soon as possible.

► Flexible multi filter

Combine every data field like
PID=1234 + Date=today + Test=FIB.

► Filter Presets

Today; recent x-days; QC data; etc.

► Statistical analyse for QC or patients

Filter any data (e.g. Patient XYZ, only PT, last 30 days), and visualize them with Levey Jenning diagram with one click. Analyze data with Westgard Multirules. Define QC or Patient ranges.

► Reaction curve analysis

Each result is received together with optical reaction curve.

► Research

Export all data, grids, charts to PDF, XLS, TXT or HTML.

► Security

Operator can login as administrator or user in order to control and manage the database with different access rights

► Online Update

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Measurement

- ▶ Clotting, chromogenic, immunological
- ▶ Quarter test volume (75 µL)
- ▶ High speed testing
- ▶ Biphasic waveform analysis
- ▶ Profile testing in batch or random access
- ▶ Preset for 9 different profiles
- ▶ Single or double determination
- ▶ Automatic reflex testing

Sample

- ▶ 3x 15 primary tubes
- ▶ Positive sample identification (ID and rack position) with barcode
- ▶ Cap Piercing for BD Vacutainer® or Sarstedt Monovette®
- ▶ Micro tubes like Eppendorf® 2 mL for pediatric samples
- ▶ Emergency STAT orders
- ▶ Sample continuous loading in random access mode

System

- ▶ 6 optic channels at 405 nm with auto light sensing and extraneous light elimination to reduce interferences such like bilirubin or sunlight
- ▶ Dual-Z pipetting system with two probes and liquid level sensor
- ▶ Integrated laser barcode reader for samples and reagent
- ▶ Bi-directional Interface for PC-Link to LIS
- ▶ Integrated graphical thermal printer
- ▶ Heated and cooled positions for reagents, controls, buffers
- ▶ Integrated drawers for consumables
- ▶ System configuration as "OPEN" or "CLOSED"
- ▶ Longlife Service Interval (every 100.000 tests)

Quality Control

- ▶ Onboard colled positions for up to 3 control plasma
- ▶ Auto QC flagging for erroneous results
- ▶ One click report with Levey-Jennings graph and Westgard analysis
- ▶ LOT. number (control + reagent) specific QC analysis is possible

Software

- ▶ Intuitive TECO familiar graphical user interface
- ▶ Multi language dialogue (En, Ger, Sp, It, China, Greek, Russia,...)
- ▶ Free programmable test protocols to change or adapt new tests
- ▶ Calculation of activity %, INR, Ratio, g/L, mg/dL and more
- ▶ Calibration curve can be identified with up to 6 points per test.
- ▶ Touchscreen Control (supported)

Special Functions

- ▶ Automatic plasma dilutions up to 1:100
- ▶ Automatic test calibration routines
- ▶ Automatic test skip, if reagent run out
- ▶ Database for 1 Mio patient history
- ▶ Test calibration management for each reagent lot
- ▶ Each result can be traced back to reagent lot and calibration data.
- ▶ Patient monitoring for long time periods
- ▶ Reaction curve monitoring

Economic

- ▶ Quarter test volume to 75 % cost savings
- ▶ Reagent dead volume is below 200 µL
- ▶ Very economic consumption of rinse and cleaning solution
- ▶ All critical system parameters are monitored and make the Instrument nearly free of service.

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Global:

PT
aPTT
Thrombintime
Fibrinogen (Clauss & PT derived)
Heparin

Factors:

Factor II
Factor V
Factor VII
Factor VIII
Factor IX
Factor X
Factor XI
Factor XII

Thrombophilia:

Protein C
Protein S & free Protein-S
Factor V Leiden (APC-R)
Antithrombin
D-Dimer & FDP
LA Screen (DRVVT)
LA Confirm (DRVVT)
Plasminogen

Calculated units

Activity %, Ratio, Polish ratio, INR (ISI system or INR calibration curve), g/L, mg/dL, ng/L, ng/mL, µg/L, IU/mL

Technical specification

Dimension
50 x 95 x 80 cm
Weight (w/o packaging)
52 kg
Power input
90–240 Vac/50–60 Hz
Ambient conditions
18 °C – 24 °C
max. 60 % rel. humidity
no direct sunlight



Optional available

- ▶ Enlarged waste management
- ▶ Touchscreen PC
- ▶ TECAM PRO LIS – Upgrade required for bidirectional ASTM interface to LIS

Delivery package

- 1 Coatron A6 Plus
- 1 TECAM PRO CD + license
- 1 Power cord
- 120 Cuvettes, 6 pos/ea
- 10 Reagent container Ø 22,5
- 10 Reagent tubes Ø 13
- 10 Plasma tubes Ø 13
- 4 Magnetic stirrer
- 1 Rinse solution
- 1 Clean solution
- 1 Thermal paper roll
- 1 Waste container
- 2 Reagent adapter Ø 30.0
- 2 Reagent adapter Ø 24.5
- 2 Reagent adapter Ø 22.5
- 1 Operation manual
- 1 Download cable



Innovation in Coagulation

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