

# Product Fact Sheet

## CS-1600



### Product name

SYSMEX AUTOMATED BLOOD COAGULATION ANALYSER CS-1600

(Short name: CS-1600)

### Manufacturer information

Sysmex Corporation  
[www.sysmex-europe.com](http://www.sysmex-europe.com)

### Summary

The CS-1600 is a fully automated, easy-to-use and compact haemostasis analyser, incorporating coagulation, chromogenic and immunoassay methodologies in full random access.

### Productivity values

Automated start up procedure – If the analyser is switched off during the night, the wake-up function ensures that the instrument is ready when the production hours start again.

Pre-analytical sample checks – Secure auto-validation without the need for subjective manual sample checks

- Increased result security.
- Primary sample volume check – Automatic detection of under- and over-filled samples.
- Integrated cap piercing functionality.

- Automatic wavelength switch in the presence of significant interference.

### Sample handling

- Simplified handling of micro samples using dedicated racks and SLD micro cups.

### QC handling

- QC samples can be entered by a dedicated QC rack.
- Automatic QC measurement, user defined per vial or per time interval.

Advanced Reagent Management – easy-to-use software with superior security.

- Secure 2D barcode reading (optional)
- Multiple vials of the same reagent
- Auto QC on vial change
- Reduced dead volume
- Traceability: the lot numbers of the reagents, quality control and calibrators can be displayed with all results.
- Reserved space for storing reagent caps.

### Clinical values

Integrated user definable rules for rerun and reflex testing, sample integrity checks and the multi-wavelength technology guarantee reliable results in short time, even with very abnormal samples.

### Article numbers

#### Main Unit

Article no.	Item	Description
BQ203979	CS-1600 Complete	Main unit
BM935541	CS-1600 Supply Parts	Essential parts

### Optional components

Article no.	Item	Description
AG272503	Tank no. 110	10 L Waste tank. Standard: 20 L tank
CT904571	2D barcode reader (1900GSR-1)	Hand-held 2D barcode reader
BM875031	1900STD-FX22	Holder for 2D barcode reader
CX398834	Kit no. 298	Connection cable for 2D barcode
BE999446	WG-21 Complete	Wagon
---	Printer	Order locally
---	Printer cable	Order locally
---	UPS	Order locally

### Technical Specifications

Feature	Description
<b>Dimensions – Main Unit (appr.)</b>	
Width	760 mm
Depth	690 mm
Height	540 mm
Weight	85 kg
The above-mentioned figures are without optional features	
<b>Electrical rating</b>	
Voltage	100 – 240 V
Frequency	50 – 60 Hz
Power consumption	
Main Unit	680 VA or less
Heat compensation required	Appr. 2205 BTU/h
Installation category	Category II
Laser class category	Class I (IEC60825-1)
Protection type	Class I equipment
<b>Operating environment</b>	
Ambient temperature	15 – 30°C
Relative humidity	30 – 85%
Atmospheric pressure	70 – 106 kPA
<b>Detector</b>	8 wells
<b>Temperature control</b>	
Detector	37°C ± 0.5°C
Incubator	37°C ± 1.0°C

Reagent Probe	37°C ± 0.5°C
Noise level	60 dB or below
Protection rating	IP2X
Safety Standard	IEC61010-1:2001, IEC61010-2-081:2001+A1:2003, IEC61010-2-101:2002

### Analysis Specifications

Feature	Description
<b>Throughput (maximum)</b>	PT: up to 120 tests/h PT + APTT: up to 110 tests/h
<b>Detectors</b>	8 channels for clotting, chromogenic and immunoassays
<b>Cuvette supply unit</b>	Maximum 300 cuvettes
<b>Sample Plate</b>	5 x 50 wells
<b>Wavelengths</b>	405, 575, 660 and 800 nm
<b>Detection time</b>	Up to 1800 sec in steps of 0.1 sec
<b>Analysis Time (default)</b>	PT 180 sec APTT 180 sec Fbg 100 sec AT 60 sec D-Di 280 sec
<b>Racks on board</b>	Max 5 racks of 10 samples with continues loading
<b>Reagent holder</b>	28 positions at 15 ± 2 °C 5 positions at room temperature
<b>Parameters</b>	Max 18 parameters for simultaneous analysis
<b>Calibration Curves</b>	2 – 9 points/curve Max of 5 replications per point Save maximum 5 reagent lots
<b>Stored data</b>	Max 3000 samples
<b>QC data</b>	X-control, Levey-Jennings control and Westgard control Max 300 data points x 40 parameters

### Reagents and Sample Volumes

See the application guide.