

# CS-1600

Automated haemostasis testing.  
Medium workload – high class.



## Challenges in haemostasis testing

In haemostasis, test results can point out major clinical issues, some of which can be life-threatening if not dealt with swiftly and accurately. Confidence in the subsequent clinical decision-making is therefore essential. You need equipment that performs reliably and produces results of consistent, high quality at all times.

You need to meet TAT demands and help patients as soon as possible, so the tests have to be performed fast – even with complex samples that require precise pre-analytical treatment. And as the industry evolves, the spectrum of test requests is increasing too. It's a challenging situation.

## Quality<sup>3</sup>

Sysmex haemostasis solutions address these issues by bringing together the power of three best-in-class components – Sysmex analysers, and reagents and application protocols from its highly reputable suppliers Siemens and Hyphen BioMed. The strong technological performance both stabilises the routine and provides high consistency – the essential basis for reliable, accurate results and confident interpretation. This confidence is underpinned with our active support, service and expertise, both onsite and/or online.

You trust your skills – and you can rely on ours.



# The Sysmex CS-1600 – enter our top class of haemostasis analysers

All our CS-series instruments consolidate and automate a wide range of coagulation tests in a single analyser – both routine and specialty testing – and use the latest multi-wavelength technology with rapid throughput.

The CS-1600 model offers ‘the best of both worlds’: it combines the reliable, proven mechanics of the former CA-1500 model with the advanced CS-series technology in a compact analyser. The integrated cap-piercing means testing is straightforward and safe with analysis from closed primary tubes. With its access to a broad portfolio of specialty parameters, the CS-1600 suits a wide range of laboratories as a primary analyser, but you can also easily integrate the analyser in your CS network solution: all CS machines have a common graphic user interface and the CS technology delivers good comparability with results from other CS-series analysers.

## Your advantages

- Great routine analyser with a broad portfolio of specialty testing
- Proven, reliable technical performance with advanced CS-technology
- Sample integrity testing to protect result quality from pre-analytical variables
- Minimal need for hands-on maintenance
- Traceability for operation history and results

# Measures to give you peace of mind

Over- or under-filled samples can cause inaccurate results. The integrated sample volume check automatically checks sample integrity and prevents samples with unacceptable volume from being measured. The CS-series’ multi-wavelength technology produces accurate results even with difficult samples, as it switches the measurement’s wavelength if it finds significant interferences.

The software makes reagent management, QC monitoring and tracing results easy so you can fulfil Good Laboratory Practice requirements for lab accreditation. Embedded software security prevents malware or viruses from being introduced into the analyser software.

The instrument is robust and needs only minimal maintenance. Remote service is available for tailored preventive maintenance, which can effectively reduce or even prevent downtimes and maximise your workflow reliability.

## multi-wavelength technology



**Figure 1** Multi-wavelength technology principle.

Dispersed light is transmitted by an optical fibre to the detector block. The reaction process is detected at four wavelengths using a multi-wavelength detection system. Measurement is performed by selecting the optimal wavelength for each measurement parameter. In the case of an abnormal waveform, reliable data is still provided by switching the primary and secondary wavelengths.

# Effective support for a smooth lab routine

In line with Sysmex's Silent Design® principle, the CS-1600 offers high functionality in a compact size. Its smart design means it is easy to operate and has smart details such as additional space to properly store your reagent vial caps.



**Figure 2** Reagent vial cap storage. The integrated spaces for 34 caps help you maintain a cleaner, tidier testing environment.

Reagent and QC vials carry barcoded information that can be registered safely and easily with the optional barcode reader. The display shows all the relevant reagent information so you can easily see what has to be replenished. The minimised dead volume helps you reduce reagent wastage. With multiple reagent vials on board, you can assign the priority of QC measurements: before using a reagent vial, the QC measurement assures it can generate correct patient results.



**Figure 3** Reagent management screen. You can easily check the remaining volume of reagent, the remaining number of tests, on-board stability time and other information.

If you are not going to be using the analyser at night, an automatic wake-up function will wake the machine for the new day's routine so you can start work almost immediately once you arrive at the lab. For really urgent samples you can use the built-in STAT sample position. And when it's time for a change in shifts, you can generate a handover list.

# CS-1600 offers high functionality in a compact size

# Consistent results of a high quality standard

Thanks to the wide measurement ranges, the sample integrity checks, and the user-definable rule-based rerun & reflex testing in combination with the multi-wavelength technology, reliable results can be reported timely and without any additional intervention.

The high quality of the results is safeguarded by advanced algorithms and in case of doubt a review of the reaction curves can give extra confidence.





## Key specifications

<b>Model</b>	CS-1600
<b>Detection principles</b>	clotting, chromogenic, immuno-turbidimetric
<b>Throughput</b>	up to 120 tests/h (PT)
<b>Wavelengths</b>	405 nm, 575 nm, 660 nm, 800 nm
<b>Sample volume check</b>	available
<b>Sample tube loading capacity</b>	50 tubes
<b>Detector wells</b>	8 wells
<b>Incubator wells</b>	9 wells
<b>Simultaneously available assays</b>	20 assays, 2 lots per assay
<b>Calibration curves</b>	2–9 points per calibration curve, max. 5 calibration curves per assay
<b>QC methods</b>	Westgard multi-rule, L-J, auto QC & priority QC
<b>Cuvette supply unit</b>	capable of storing a maximum of 300 cuvettes
<b>Dimensions/weight (main unit)</b>	760 x 540 x 690 (W x H x D, mm)/approx. 85 kg

Design and specifications may be subject to change due to further product development.  
Changes are confirmed by their appearance on a newer document and verification according to its date of issue.

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