

# DiaSys SYS 240 Pro

## Fully automated, random-access biochemistry analyzer

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### Why Choose?

Select the DiaSys SYS 240 Pro for laboratory precision backed by intelligent automation—delivering 240 tests per hour with expandable capacity, SMART Probe technology that minimizes errors, and comprehensive assay support ideal for mid-sized lab environments.

- "240 tests per hour, expandable to 480 with ISE module—grow with your lab."
  - "SMART Probe technology minimizes errors and manual intervention."
  - "On-board hemolysis for automated HbA1c testing—whole blood ready."
  - "12 wavelengths with holographic grating—comprehensive assay support."
  - "Continuous sample loading with STAT priority for urgent cases."
  - "Advanced clot detection and collision protection prevent costly errors."
  - "Refrigerated 50-position tray with automatic inventory tracking."
  - "Precise 37°C temperature control and high-pressure cuvette washing."
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### Unique Selling Points

- **High-Performance Throughput:** Constant 240 photometric tests per hour with optional ISE module expansion to 400-480 tests per hour for growing labs.
- **Advanced Photometric System:** Holographic concave flat-field grating system with 12 wavelengths (340-800 nm) covering absorbance, turbidimetry, and ion-selective electrode measurements.
- **Flexible Assay Support:** Handles End Point, Fixed Time, Kinetic, and ISE assay types with extensive test menu covering cardiovascular, diabetes, renal, liver, and metabolic profiles.
- **SMART Probe Technology:** Stainless steel probe with liquid level detection, collision protection, clot detection, and reagent pre-warming—reducing manual errors and improving reliability.
- **On-Board Hemolysis for HbA1c:** Fully automated hemolyzation of whole blood samples with intelligent sampling at tube bottom for high-sedimentation samples, eliminating error-prone manual preparation.
- **Continuous Sample Loading:** 50-position sample capacity with continuous loading and any-position STAT capability for uninterrupted workflow and urgent case prioritization.
- **Comprehensive Sample Flexibility:** Processes serum, plasma, urine, and whole blood with sample volume control (2-35  $\mu\text{L}$  in 0.1  $\mu\text{L}$  steps).
- **Refrigerated Reagent Management:** 50-position refrigerated tray (2-12°C) with automated inventory checking and barcode tracking to minimize waste and ensure reagent stability.
- **Quality Assurance Built-In:** Westgard multi-rule monitoring, Levey-Jennings plots, cumulative sum checks, and advanced calibration methods (K-Factor, Linear, Logit-Log 4P/5P, Spline, Exponential).

- **Precise Environmental Control:** Maintains 37°C reaction temperature  $\pm 0.1^\circ\text{C}$  with high-pressure cuvette washing (80 reusable cuvettes) to minimize carryover and ensure consistent results.
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## Clinical Benefits for Hospital Laboratories

- **Accelerated Turnaround Times:** 240 tests/hour supports rapid reporting for routine workloads with expandable capacity during surge periods.
  - **HbA1c Excellence:** Automated on-board hemolysis and smart sampling protocols deliver rapid, accurate HbA1c results from whole blood without pre-processing.
  - **Reduced Pre-Analytical Errors:** SMART Probe with barcode tracking and collision protection minimizes sample handling mistakes and ensures accurate sample identification.
  - **Seamless Integration:** LIS-ready with bi-directional communications for streamlined data management and reporting workflows.
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## Emergency Testing Performance

- **Immediate STAT Access:** Any sample position can be designated STAT with immediate priority processing, bypassing queue for critical care needs.
  - **Sustained High-Performance:** Continuous loading maintains speed during emergency surges without batch-mode delays.
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## Why Hospitals Choose

- **Mid-Size Lab Purpose-Built:** Perfect balance of throughput, flexibility, and space efficiency for mid-sized hospital and reference labs.
  - **Scalable Architecture:** Optional ISE module allows labs to start with 240 tests/hour and expand to 400-480 tests/hour as demand grows.
  - **Proven Reliability:** DiaSys reagent technology foundation with billions of tests performed annually across the world.
  - **Complete Solution:** Backed by comprehensive DiaSys reagent portfolio and reliable after-sales service supporting long-term laboratory success.
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## Transform Your Laboratory Today

Empower your mid-sized laboratory with the DiaSys SYS 240 Pro—combining high-speed automation, intelligent sample handling, and comprehensive assay capability to deliver exceptional clinical performance while maintaining operational efficiency and accuracy.

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