

Clinical Chemistry

Photometric, fully automated benchtop analyzer

Indiko Plus Clinical Chemistry Analyzer

Benefits

- Daily startup and standby procedures
- Loading of any mix of sample cups and barcoded primary tubes
- Clot detection
- Automated dilutions, reruns, reflex testing
- Barcoded reagents identification
- Real-time monitoring of reagent usage and expiration date
- Full calibration and lot traceability
- Real-time QC data transfer
- Bidirectional LIS connection
- Long-lasting xenon light source
- Disposable cuvette design ensuring accuracy and speed with no washing
- Direct ISE measurement reflecting the true in vivo situation in the ionic strength and activity
- Minimal water consumption
- Small footprint, quick and easy to install

Thermo Scientific™ Indiko™ Plus Clinical Chemistry Analyzers are fully automated random access analyzers for routine and special chemistries, including specific proteins, therapeutic drugs, drugs of abuse*. Indiko Plus Clinical Chemistry Analyzer(s) are intended to be used in diagnosis of disease or other conditions, including a determination of the state of health, in order to cure, mitigate, treat or prevent a disease. Indiko Plus, and all of the reagents included in this test system are for in vitro diagnostic use only.

The Indiko Plus analyzer employs colorimetric end-point and kinetic, as well as turbidimetric and bichromatic reactions, with or without sample blanking. Optional ISE unit uses ion selective electrodes for sodium, potassium and chloride measurements.

* Application availability may vary from country to country. Please contact your local sales representative for more information.

Measurement

Single channel interference filter photometer with beam splitting reference, 12 filter positions. Direct ISE measurement available in parallel of photometric measurements.

Filter range	340 - 700 nm
Incubation temperature	Controlled at 37 °C
Light source	Maintenence-free Xenon flash lamp
Absorbance range	0 - 3.5 A, resolution of 0.001 A, reproducibility of SD <0.005 A at 2 A
Optional ISE unit	Electrolyte channels for Na^+, K^+ and Cl^-

Reaction vessels

Thermo Scientific™ Tencell™ discrete disposable cuvette (IVD accessory). Continuous access to cuvettes without interrupting test processing.

On-board capacity	360 measurement cells, 36 cuvettes with 10 reaction cells, from 1 to 3 hour walk-away time depending on workload
Reaction end volume	120-300 µL

Samples and Reagents

Continuous access to samples and Indiko system reagents without interrupting test processing. Automatic identification via internal barcode reader. Clearly displayed real-time reagent volume and remaining test capacity. Up to four reagent additions per test. Automatic probe cleaning with liquid level, clot and collision detection.

On-board capacity	Up to 108 samples, 9- or 18-position sample rack, max. 6 racks, 42 reagent positions in the cooled disk
Sample volumes	2-120 µL
Sample containers	0.5 mL, 2.0 mL cups and sample tubes (diameter 12-16 mm, length 75-100 mm)
Sample barcodes*	Code 128 and barcodes USS Codabar, Interleaved 2 of 5 and Code 39 with a check digit
Reagent volumes	2-240 µL
Reagent containers	10 mL and 20 mL vials
Sample and reagent dispensing	CV ≤2% for volumes ≥2 µL

*Used with sample tubes in a 9-position sample rack

Calibration

Factor, bias, linear, logit-log, spline, polynomial and point-to-point calibration. Method-dependent use of individual calibrators or automatically diluted series from a stock calibrator. Previous curve comparison available.

Quality Control

Real-time QC program with multiple, user-definable Westgard rules. Control frequency user-definable. Out-of-specification control results flagged. QC chart printouts, daily and cumulative reports.

Dilutions

Automatic sample pre-dilution. Automatic dilution of over-range tests with automatic rerun. Addition of manual pre-dilution value for result calculation. Reflex testing capability.

Data Management

Microsoft® Windows® 10 workstation with graphical user interface. Data input online, via mouse, touchscreen, keyboard and barcode reader. Different user groups can have different access rights. Different user interface language versions available. Bidirectional communication with laboratory information system.

LIS interface	CLSI LIS02-A2
Hardware interface	RS-232 or TCP/IP
Result reports	Collated by sample, manual entry of off-line results allowing for fully-collated result reports, results calculated from both measured and off-line results. Abnormal values and repeats flagged automatically.
Traceability	Full traceability with long term storage of results including associated calibrations and reagent lot data.
Capacity	Photometric tests/hour: up to 350 ISE tests/hour: up to 135
Dimensions and weight	94 cm (width) × 70 cm (depth) × 62/130 cm (height/with open cover), 110 kg (weight). Separate workstation.
Power requirements	100-240 VAC ±10%, 50-60 Hz ±5%, 300 W
Deionized water consumptions	2.5 litres/ hour
Average noise level at 1 meter	<60 dB(A)
Environmental conditions	Operating temperature range of 18-30 °C, humidity 40-80% (non-condensing)
Regulatory	Conforms to • EN 61010-1, IEC 61010-1, UL 61010-1, CAN/CSA-C22.2 No. 61010-1 • EN 61010-2-010, IEC 61010-2-010, UL 61010-2-010, CAN/CSA-C22.2 No. 61010-2-010 • EN 61010-2-101, IEC 61010-2-101, UL 61010-2-101, CAN/CSA-C22.2 No. 61010-2-101 • IEC/EN 61326-1, IEC/EN 61326-2-6, FCC CFR 47 Part 15, subpart B, ICES-003 • 2011/65/EU RoHS Directive • FDA 510(k) cleared with number k110035 (Indiko Plus 98640000) • Regulation (EU) 2017/746 in vitro diagnostic medical devices
Ordering codes	98640000 Indiko Plus 98641000 Indiko Plus with the ISE unit 986000 Tencell Cuvettes

Contact information

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Learn more at **thermofisher.com/indikosystems**

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