

Indiko Plus clinical and specialty chemistry analyzer

Fully automated, sample oriented, random access analyzer

Thermo Scientific™ Indiko™ Plus is a fully automated, sample oriented random access analyzer for clinical and special chemistries, including enzymes, substrates, electrolytes, specific proteins, therapeutic drug monitoring, drugs of abuse and immunosuppressant drug tests[†].

Indiko Plus 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.

ISE and photometric tests can be run simultaneously from a single sample.

(* 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.

Filter range:	340 - 700 nm
Incubation temperature:	Controlled at 37 °C
Light source:	Xenon flash lamp
Absorbance range:	0 - 3.5 A - resolution of 0.001 A - reproducibility of SD <0.005 A at 2 A

Reaction vessels

Discrete disposable cuvette. Continuous access to cuvettes without interrupting test processing.

On-Board Capacity:	360 measurement cells - 36 cuvettes with 10 reaction cells - 1 to 3 hour walk-away time depending on workload
Reaction End Volume:	120 - 300 µL

Samples

Continuous access to samples without interrupting test processing. Automatic identification via internal barcode reader.

On-Board Capacity:	up to 108 samples - 9 or 18-position sample rack - max 6 racks
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
Sample Dispensing:	CV ≤2% for volumes ≥2 µL

Reagents

Continuous access to 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.

On-Board Capacity:	42 positions in the cooled disk
Reagent Volumes:	2 - 240 µL
Reagent Containers:	10 mL and 20 mL vials
Reagent Dispensing:	CV ≤2% for volumes ≥2 µL

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

Windows® 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.

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) x 70 cm (depth) x 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) Conforms to CAN/CSA-C22.2 No.61010-1-04 UL Std. No. 61010-1:2004 FCC CFR 47 Part 15, subpart B 2011/65/EU RoHS Directive FDA cleared, 510(k) number: k110035 (Indiko Plus 9864 0000) 98/79/EC IVDMD Directive CE
Regulatory:	
Ordering Codes:	9864 0000 Indiko Plus 9864 1000 Indiko Plus with the ISE unit



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