

***promea***<sup>®</sup>

# PA - 2000

BioChemistry Analyzer



**ISO 9001:2015**  
QUALITY MANAGEMENT SYSTEM

**ISO 13485:2016**  
MEDICAL DEVICE QUALITY MANAGEMENT



Compact



Reliable



Ergonomic



Economic



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**Product Intro:**

Promea's PA 2000 is a fully automated, random access and discrete clinical chemistry analyzer that enhances productivity and turnaround time. PA 2000 comes with a throughput of 200 photometric tests per hour. PA 2000 is fast and an accurate chemistry analyzer that has been designed for mid-size laboratories. PA 2000 can comfortably handle the demands of an increased workload in a convenient and cost efficient way. It adds value to the laboratory and is an ideal choice for Mid-size labs. PA 2000 can be of your perfect choice if you're looking for an automated clinical chemistry analyzer with High precision & simple operation.

**Sample:**

- STAT Sampling
- Minimum sample Cup volume: 100µL
- Minimum Sample Volume: 2µL
- Sample cups, Hi cups and standard Round Test Tubes

**Reaction Cuvettes:**

- 60 cuvette positions.
- Individual Cuvette Replacement Provision.
- Reaction Cuvette Volume: 500µL
- Reaction Volume: Max 300µL and Min 180µL
- Intelligent Identification system to skip the faulty cuvette before test run
- Digitally Controlled reaction cuvette temperature at 37 °C

**Reagent Carousel:**

- Effective temperature control between 10 – 12°C
- Small and compact Reagent tray which can be stored in refrigerator

**Reagent Positions:**

- R1 & R2: 40 Position (combined)

**Reagent Bottles:**

Small Pack size bottles to avoid deterioration

R1: 18ml filling Volume

R2: 5ml Filling Volume

Dead Volume: 1ml

**Sample Probe:**

Vertical & Horizontal Crash detection

**On-board Laundry:**

7 Step Cuvette washing with warm water

**Stirrer:** Variable Speed stirrer

**OS:** Windows

Compatible with XP, Windows 8, 10 and 11



## Technical Specifications

Item	Description
Throughput	200 test/hour
System type	Discreet, open/ closed (Optional)
Sample	Serum, Urine, Plasma, CSF, Other body fluids
Measurement principle	Photometric and HIAS (Homogeneous Immuno Assays)
Wavelengths	9: 340,405,450,510,546,578,620,660,690nm
Photometer Linearity	Up to $\pm 3.0$ Optical Density
Light source	Halogen lamp (12V 20 W)
Programmable parameters	50 photometric tests
Assay modes	End Point, Fixed time, Rate-A, MultiPoint Non Linear
Sample positions	40 for standard cups/ primary tubes/ STAT
Sample volume	2-50 $\mu$ l (adjustable in 0.1 $\mu$ l step)
STAT Sampling	STAT sampling at any position
Reagent positions	40 for combination of 18mL and 5mL bottle size
Reagent volume	10 – 300 $\mu$ l (adjustable in 1 $\mu$ l step)
Reagent cooling	15°C below ambient room temperature (approx 25°C)
Reaction volume	150 $\mu$ l to 300 $\mu$ l
Level sensing and safety mechanism	Vertical obstruction detection Inventory management by Capacitance based sensing
Reaction temperature	37 °C $\pm$ 0.2 °C
Calibration	Max 6 calibrators per test with Calibrator auto-dilution
Calibration curves	K-Factor, Linear (one, two and multipoint), Logit-log (4P and 5P), Spline, Exponential and Polynomial
Quality control	Tri level Daily and Monthly L J Graphs with Multi QC Rules
Mixing type	By paddle mixer with variable speed (Low/ Middle/ High)
Sample dilution	Pre/Post dilution for >Linearity & Substrate Depletion
Sample and reagent tray	Rotating turn table with insulating cover
Sample/Reagent Identification	Positive Identification (Barcoding) for samples& reagents
Cuvette washing	7 stages Cuvette washing with drier chip
Data storage capacity	Test results: 1,000,000, Reaction curve: 40,000 tests
Graph monitoring	Online for Reaction and Calibration curve
Water consumption	NCCLS Type II, 4.5 liters/hour (approx)
Noise level	Less than 65 dB with cover closed
Weight	Approximately 48Kgs



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