

Water Quality Testing



Instruments & Accessories

RPA-I RaPID Analyzer[®]

Features

- Easy - Self prompting display for all steps
- Fast - Read times less than 1 second per tube with immediate printout.
- Convenient - Automatic data reduction and readout in concentration units.
- Software Driven - Microprocessor memory maintains all assay protocol and calibration data.
- Sophisticated - Dual wavelength measurements produce interference free readings.
- Flexible - Output on backlit liquid crystal display, thermal printer or RS-232.

AUTOMATIC REPORTS

The microprocessor controlled RPA-I RaPID Analyzer automatically converts immunoassay optical readings to sample concentrations (ppb). Programs for RaPID Assay[®] and EnviroGard[®] methods can be stored along with previous calibration results for convenient instant operation. The fully automatic data reduction capability is important to integrate the logit and log-linear enzyme immunoassay procedures and produce directly reportable results.

OPTICAL SYSTEM

The specially designed optical system and dual wavelength path in the RPA-I RaPID Analyzer allow for direct readings through the round plastic reaction tubes. This minimizes diffraction due to the curved surface and interference from scratches or finger marks. Readings, data reduction, storage and result printout are completed within one second of tube insertion, thus providing high throughput capability.

SIMPLE OPERATION

The self-prompting display facilitates quick and easy use. Method entry, test steps and error messages are all displayed. Output is through a backlit liquid crystal display, a simultaneous thermal printer, or the RS-232 interface.

EASY PROGRAM EXPANSION

The RPA-I is pre-programmed to perform certain RaPID Assay methods. Program loading for other kits is accomplished by a keypad procedure. The operating program software is contained in a similar cartridge for easy field update or software modification. Automatic battery back-up is incorporated to protect all protocols and data if power is lost or disconnected.



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PRODUCT PROFILE

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RPA-I RaPID Analyzer®

Mechanical

System configuration	Compact bench top instrument.
Tube types	Glass or plastic 12mm round tubes.
Read rate	1 sample per second.

Electro-Optical

Light source	High intensity quartz-halogen lamp.
Detector	Solid state photodiodes.
Wavelengths	340 nm to 630 nm.
Optics	Bichromatic.
Linear range	0-2.0A.
Voltage range	Adaptors available for 100/120 and 220/240 volts, 50 or 60 cycles.

Data Handling

Input	Membrane keyboard.
Display	Liquid crystal display.
Printer	Thermal dot matrix.
Data storage	Data storage capability for: <ul style="list-style-type: none">— test protocols— calibration curves
Interface	RS232.

