

2i Digital Aerosol Photometer



The most advanced, innovative and user friendly digital aerosol photometer

available today, the ATI 2i is portable, yet rugged, and the ideal instrument for insitu filtration system integrity testing. Utilizing the iProbe provides full functionality away from the base unit, minimizing downtime and maximizing efforts in the field.



Applications

- Independent Filter Certifiers
- Nuclear Facilities
- Pharmaceutical Manufacturers
- Medical Facilities & Cleanrooms
- Bio-Safety Cabinets & Fume Hoods

Key Features and Benefits

- Lightweight, portable and rugged digital photometer
- Large 4.3" LCD screen to display critical information
- iProbe with 12 ft cable for hard to reach areas minimizes downtime
- User settable aerosol noise suppression for more stable aerosol measurements
- Printer (optional) available for reporting
- 2i-N models include a sealed sample train, enables safe removal and replacement of contaminated sampling components



2i DIGITAL AEROSOL PHOTOMETER

Innovative User Interface

The 2i base instrument's 4.3" Liquid Crystal Display gives life to the easy to use, menu driven interface. Aerosol measurements and pump sampling rates are prominently displayed for easy viewing. System parameters and selections such as alarm types, alarm set points and aerosol reagent are shown on the lower menu bar, while icons at the top of the screen give the status of connected peripherals, reporting functions, and aerosol noise suppression selections.

Data Reporting

Three unique report functions are now available with the 2i through the USB or optional thermal printer interface. Continuous mode offers the same output as ATI's legacy photometers to ensure backward compatibility. Monitoring mode provides the ability to collect data at user defined intervals for long term sampling. Summary mode, which gives discrete reporting capability for individual filter locations, can output to the thermal printer to meet customer documentation requirements.



Optional Printer & Sample Report

iProbe

The iProbe acts as an extension of the base instrument through a nearly identical user interface. All status and selection icons from the base unit are represented on the iProbe. With the press of a button, the sampling location can be remotely selected and switched by way of an electronically controlled valving system.



iProbe Display and Controls



2i Base Display

Performance Guaranteed

To ensure consistent results in all applications and altitudes, the sampling flow rate is constantly monitored and controlled via a pulse width modulated pump. The 2i has been independently tested and qualified to ensure compliance with all applicable electrical and safety requirements.

Hazardous Environments

Designed for the rigors of nuclear and other hazardous applications, the 2i-N (the nuclear version of the 2i) can be equipped with a unique, sealed sample train. The unit is engineered to allow safe removal and replacement of contaminated sampling components.

Simple maintenance

Annual NIST traceable calibration service is provided by ATI or an ATI-certified calibration facility. Calibration includes setting the aerosol reagent references, sample flow reference points, operating voltages, and servicing the light scattering chamber assembly. Routine preventative maintenance entails cleaning and inspection of internal sample tubing and connections, the internal reference filter, and iProbe.

Enhanced Features

Upstream aerosol mass concentrations are displayed in actual mass concentration values of micrograms per liter ($\mu\text{g}/\text{l}$). User settable Aerosol Noise Suppression (ANS) allows for more stable aerosol measurements when poor mixing is present.



Protect your investment with a rugged water-proof carrying case

The 2i case allows you to bring your equipment wherever you may need it. With a rugged and water resistant construction, it will provide long lasting protection of your investment.



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PRODUCT SPECIFICATIONS

Dimension (L x W x H)	33 cm x 25.7 cm x 15.2 cm (13" x 10.1" x 6")
Weight	8.6kg (19lbs); 21.8kg (48lb.)
Power Voltage Consumption	100 to 250 Volts AC, 50/60Hz automatic adjustment 0.5 amps @ 120V, 0.25 amps @ 240V
Auto Zero	Automatically establishes zero reading at startup
Alarm	User selectable audible, visual, and vibratory alarms notify the user when the user defined set point is exceeded.
Flow Control	Pulse Width Modulation (PWM) control ensures sampling rate of 1cfm (28.3 Lpm) +/- 10% in all applications.
Reagent Settings	PAO-4, DOP, Ondina, PEG, Krydol, Corn Oil, Mineral Oil, Paraffin
Dynamic Range	0.1 µg/m ³ to 120 mg/m ³
Sensitivity	1% of readings > 0.01% to 100%
Repeatability	0.5% of readings > 0.01% to 100%
Light Source	Solid State, rated for life of instrument
Output	USB Connection
Reporting	Continuous, Summary, and Monitoring modes
Printer Accessory	Thermal Printer for hard copy of Summary Report
Standards Compliance Industry Electrical & Safety	NSF 49, IEST, ISO-14644 CE, FCC, EN61010-1:2010, EN61326-1:2006



Service & Training @ ATI

- OEM calibration, maintenance & repair
- ATI Certified Operational, Service & Maintenance Training (ask for details)
- Quality testing for HEPA filters & protective masks available at our ISO-9001 registered, NQA-1 & DOE audited Test Laboratory