

Federal Reference Method sequential ambient sampler featuring enhanced communication capabilities and long-term unattended operation.

Thermo Scientific Partisol 2025i Sequential Air Sampler



Key Features

- U.S. EPA PM-2.5, PM-10 and PM-Coarse Equivalent Sampler
- Enhanced user interface and iSeries communication capabilities
- Improved data downloads
- Designed for easy maintenance
- Modular parts platform

The Thermo Scientific Partisol 2025i Sequential Air Sampler is designed to meet the regulatory monitoring requirements for PM-2.5, PM-10 and PM-Coarse sampling methods. Developed on the renowned iSeries software platform design, this sampler also features USB ports for improved data downloads.

The Partisol[®] 2025i sampler exchanges 47mm diameter sample filters automatically, which can be preset to a user-defined time interval. It has the capacity to store 16 filter cassettes, allowing for two weeks of unattended daily sampling of particulate matter (PM).

The simplified design and modular platform offers common electronics and easy maintenance, including a quick exchange of the pump.

The Partisol 2025i sampler holds U.S. Environmental Protection Agency (EPA) reference designation and has quickly become the backbone of the U.S. EPA PM-2.5 National Sampling Network.

The iSeries communication capabilities of the Partisol 2025i sampler offers improved data downloads through an enhanced user interface. Additional iSeries features also include:

- Flash memory for increased data storage
- Enhanced Ethernet connectivity
- Remote data access
- iPort communication software
- Large interface screen

Product Specifications

To maintain optimal product performance, you need immediate access to experts worldwide, as well as priority status when your air quality equipment needs repair or replacement. We offer comprehensive, flexible support solutions for all phases of the product life cycle. Through predictable, fixed-cost pricing, our services help protect the return on investment and total cost of ownership of your Thermo Scientific air quality products.

Thermo Scientific Partisol 2025i Sequential Air Sampler

Filter Holders and Media	Accommodates 47mm filter in the single-flow and dual-flow configurations For U.S. EPA PM-2.5 and PM-Coarse sampling: Teflon® 2µm pore size membrane filter (regulation required) For U.S. EPA PM-10 reference sampling: Pallflex TX-40, quartz filter and Teflon® materials <i>Optional cassette separators may be used to eliminate passive volatilization losses or cross-contamination for speciation work</i>
Sample flow control and Reporting	Activol flow control system using mass flow controller. Controls at rates ranging from 10 to 19 volumetric L/min. The sampler displays the current volumetric flow rate (l/min.).
Audit/Calibration	Direct software support for single-point and multi-point audit/calibrations of the volumetric flow
Internal Data Storage	86 days of Interval data (stored every 5 minutes), 32 filter data records, and input data (30 minute default)
Data Input and Output	Keypad/display for data retrieval and user programming, RS232/RS485 interface, Wind vane/anemometer connection with 24Vdc power output and 2 0-5 Vdc inputs for wind speed and direction Dual USB ports for easy data download to universal flash drives Optional kit available to configure the sampler for digital and analog I/O to enable connection to other devices
Operational Temperature	-40°F to 122°F (-40°C to 50°C)
Power Requirements	3A @ 120 VAC, 1.5A @ 240 VAC
Physical Dimensions	25.2" (64cm) W x 15.8" (40.2cm) D x 26.3" (67.3cm) H (<i>enclosure</i>) Top cover: H = 31" (78.8cm), Inlet Connector: W = 35.3" (89.5cm) Stand: (Top section) 30.8" (78.2cm) W x 27.1" (68.8cm) H x 14" (35.6cm) D Footprint: 42" (106.7cm) W x 18.1" (46cm) D
Weight	101lbs (46kg)
Safety and Electrical Designations	CE: EN550011 Group 1, Class B (Emissions); EN55082-1 (Immunity); EN61010-1 (Safety) ETL: UL and CSA Equivalent approval
Regulatory Designations	U.S. EPA PM-2.5 Reference Method: RFPS-0498-118 U.S. EPA PM-10 Reference Method: RFPS-1298-127 U.S. EPA PM-Coarse Reference Method: RFPS-0509-176

Ordering Information

Partisol 2025i Sequential Air Sampler

Choose from the following configurations/options to customize your own Partisol 2025i Sampler

1. Voltage options:

A = 120 VAC 50/60 Hz (standard)
B = 220 VAC 50/ 60 Hz

2. Inlet:

C = U.S. TSP
E = PM-10 U.S. EPA
T = PM-10 Traditional
S = SCC inlet combo (PM10 US EPA 1st stage w/ PM-2.5SCC

U = SCC inlet combo PM-10 traditional 1st stage w/ PM-2.5 SCC
V = VSCC inlet combo PM-10 U.S. EPA 1st stage w/ PM-2.5 VSCC
W = VSCC inlet combo PM10 traditional 1st stage w/ PM-2.5 VSCC
M = WINS inlet combo PM-10 1st stage w/ WINS Impactor
1 = PM10 U.S. EPA 1st stage w/ PM-1 SCC
2 = PM-10 traditional 1st stage w/ PM-1 SCC
N = No inlet

Your Order Code: 2025i - _ _

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This product is manufactured in a plant whose quality management system is ISO 9001 certified.

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