

Partisol 2025i Sequential Air Sampler

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

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

Features

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

Introduction

The Partisol 2025i sampler exchanges 47 mm 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
- USB numeric keypad



Thermo Scientific™ Partisol™ 2025i
Sequential Air Sampler

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Specifications	
Filter holders and media	Accommodates 47 mm filter in the single-flow and dual-flow configurations For U.S. EPA PM-2.5 and PM-Coarse sampling: Teflon™ 2 µm pore size membrane filter (regulation required) For U.S. EPA PM-10 reference sampling: Pallflex TX-40, quartz filter and Teflon™ materials
Sample flow control and reporting	Active 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 24 Vdc 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	10A @ 115 VAC, 50/60Hz, 5A @ 220-240 VAC, 50/60Hz
Physical dimensions	25.2" (64 cm) W × 15.8" (40.2 cm) D × 26.3" (67.3 cm) H (enclosure) Top cover: H = 31" (78.8 cm), Inlet connector: W = 35.3" (89.5 cm) Stand: (Top section) 30.8" (78.2 cm) W × 27.1" (68.8 cm) H × 14" (35.6 cm) D Footprint: 42" (106.7 cm) W × 18.1" (46 cm) D
Weight	101 lbs (46 kg)
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

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 products.

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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 (PM-10 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 PM-10 traditional stage w/PM-2.5 VSCC

M = WINS inlet combo PM-10 1st stage w/WINS impactor

1 = PM=10 U.S. EPA 1st stage w/PM-1 SCC

2 = PM=10 traditional 1st stage w/PM-1 SCC

Your Order Code: 2025i-



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