

E-SEQ-FRM Sequential Reference Method Sampler



Met One Instruments, Inc.

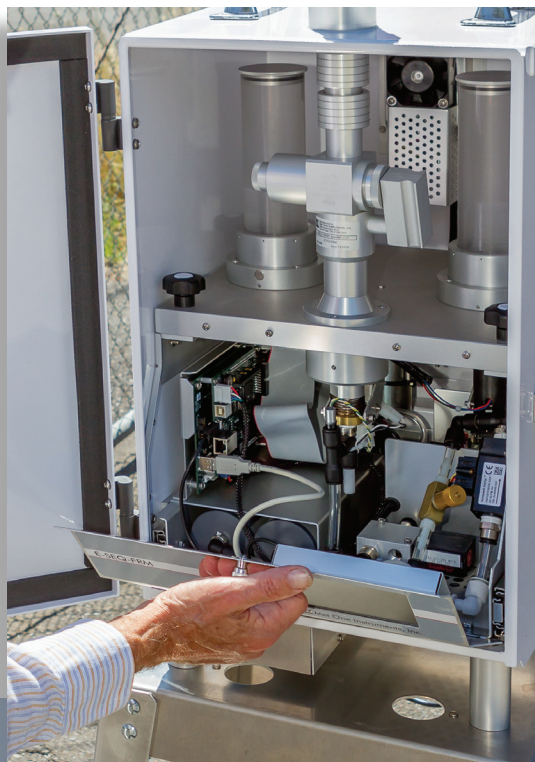
The Met One Instruments, Inc. E-SEQ-FRM Reference Method meets the regulatory requirements for $PM_{2.5}$, PM_{10} and $PM_{10-2.5}$ sampling methods.

The E-SEQ-FRM accommodates up to sixteen (16) 47-mm diameter filter samples and may be pre-programmed to a flexible, user-defined sampling schedule permitting more than 2 weeks of unattended daily operation.

The E-SEQ-FRM is modular in design, and may be easily disassembled and transported from one site to another. Its compact design and small footprint and allows it to be moved in and out of locations with challenging ingress/egress. No disassembled component: system box, stand, or inlet assembly weighs more than 45 lb.

The E-SEQ-FRM offers an easy, intuitive event manager that permits programming of up to 16 independent sampling events.

Optional modem/communication package allows for remote access of stored data via RS232 interface. Data is also quickly and easily retrieved with a USB flash drive.



- Applications:**
- Regulatory criteria reference sampler networks: federal, state, local.
 - Academic studies
 - Comparative studies

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| Method | Multi-event, sequential sampling of ambient air onto filter media |
| Regulatory Designations | US-EPA PM _{2.5} FRM Candidate US-EPA PM ₁₀ Reference Method Candidate US-EPA PM _{10-2.5} FRM Candidate Korea Certification Candidate |
| Filter Holders and Media | 47 mm filter For US-EPA PM _{2.5} and PM _{10-2.5} sampling: Teflon 2µm pore size membrane filter (regulation required). For US-EPA PM ₁₀ reference sampling Pallflex TX-40 quartz filter and Teflon media. |
| Sample flow | Active flow control for 16.67 LPM. Sampled volume reported under actual and standard conditions |
| Calibration | Temperature, barometric pressure and multi-point flow. |
| Internal Data Storage | More than 130 days of interval data with 5 minute time resolution 132 filter records |
| Data Input/Output | Keypad/display for data retrieval and programming. RS232, USB serial and USB flash drive interface for data download |
| Operational Temperature | -40°C to +50°C |
| Power Requirements | 100-240 VAC 50/60 Hz 1.4 amps |
| Physical Dimensions (inches) without PM ₁₀ inlet attached | System/Pump: 14.4 (w) x 14 (d) x 27 (h) Stand (at base) 24.5 (w) x 23.5 (d) x 29.6 (h) Total (at base) 23.5 (w) x 24.5 (d) x 56.6 (h) |
| Weight: | System/Pump 45 lb Stand 10.5 lb PM ₁₀ Inlet 5.3 lb |



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