

SM-4000

Personal Silica Monitor Complementary Monitoring for Silica Mitigation



- Low sensing range down to $1 \mu\text{g}/\text{m}^3$
- High precision of $\pm 3 \mu\text{g}/\text{m}^3$
- Readings display in $\mu\text{g}/\text{m}^3$ – no conversions needed
- Comes standard with GS-3 Cyclone that conforms to ISO 7708/CEN criteria
- Concurrent filter sampling option for lab analysis and/or cross-calibration of displayed results
 - Gravimetric filter cassette located directly behind the sensor for maximum particle deposition
 - Internal pump flows at 2.75 L/min (user adjustable)
- Sensor and filter cassette clips directly in the breathing zone
- Datalogging
 - DustComm Software for downloading, basic trend analysis, and graphical analysis and comprehensive graphical reporting

Silica Monitor SM-4000 is a direct-reading personal dust monitor optimized for the measurement of silica levels specified in the OSHA Final Silica Rule. Calibrated to a known amount of silica dust, SM-4000 provides direct readings for determination of peak silica concentrations for mitigation and lower TWAs. The SM-4000 internal pump and gravimetric filter cassette (directly behind the sensor) provide for concurrent collection of a gravimetric sample for silica analysis and cross-calibration. Use the SM-4000 for:

- Perimeter monitoring of regulated areas with user-set alarms
- Evaluation of controls and worker activities
- Recording time history of dust levels
- Filter sampling for lab analysis
- Task monitoring
- Selecting PPE



SM-4000 Personal Silica Monitor

Complementary Monitoring for Silica Mitigation

Easy to Use SM-4000



Clip the sensor with GS-3 Cyclone to a worker's collar in the breathing zone.



Clip the SM-4000 to a worker's belt.



Read dust concentration on the SM-4000 display. Download data for graphing/reporting.

Performance Profile

Sensor: Light scattering

Flow Rate: 2.75 L/min (user adjustable)

Sensing Range: 1 to 20,000 $\mu\text{g}/\text{m}^3$ (0.001 to 20 mg/m^3)


Precision: $\pm 3 \mu\text{g}/\text{m}^3$ (0.003 mg/m^3)

Display: Concentration in $\mu\text{g}/\text{m}^3$, TWA, STEL, MIN, and MAX

Accuracy: $\pm 10\%$ to filter gravimetric SAE fine test dust

Gravimetric Filter Sampling Requirements: 37-mm PVC filter for the supplied 37-mm in-line cassette (25-mm filter and cassette options are available.)

Ordering Information

Description	Cat. No.
SM-4000 Personal Silica Monitor Kit includes SM-4000 Monitor, GS-3 respirable cyclone, 37-mm in-line filter cassette, serial computer cable, serial to USB adapter cable, battery charger, zeroing filter, HAZ-DUST media CD with instruction manual and DustComm Pro Software (compatible with Windows XP, 7, 8, and 10), and carry case 	110-240 770-700

 Requires calibration with equipment sold separately; see below

Accessories	Cat. No.
Calibration Standard for Monitor , for verifying span and optical sensor performance	770-140
Calibration Jar , for calibrating and setting pump flow when using a respirable cyclone	225-112
Cleaning Kit , for cleaning SM-4000 Monitor	770-305
Replacement Battery Pack	770-4105

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