

SM-7240 Specifications

Sensors	Sensor Type: 90° light scattering 880nm Calibration: Calibrated against Gravimetric reference NIST traceable- SAE fine test dust ISO12103-1 A2 Fine Test Dust. Accuracy: +/- 10% to filter gravimetric SAE fine test dust Precision: +/- 0.02 mg/m ³ Sensing Range: 0.001-500 mg/m ³ or 1-500,000 ug/m ³ PM Size Range: 0.1 to 100µm Minimum Resolution: 1 ug/m ³ (0.001 mg/m ³) Zero Stability: +/- 0.001 mg/m ³ (give ug/m ³ equivalent also) over 24 hours using 10 second log rate. Humidity: 95% non-condensing	Recording Time	1 second to 15 days Sampling Rate: 1 sec., 4 sec., 10 sec., and 60 sec
Display	3.5", 24-bit True color, Resistive Color Touch, with Auto Dimming	Data Storage	43,200 data points
Real-Time Data Display	Time: Hours, min., sec., 12hour & 24 hour Date: MM/DD/YYYY, YY/MM/DD, DD/MM/YY Data Display: Concentrations (mg/m ³ , ug/m ³), Sampling Size Fraction of PM (OSHA TWA, AVE., MAX., MIN.), Start time, stop time, elapsed run time, Log rate, Flow, Real-Time Rolling Graphs (10 sec and 1 second), Personalized Named Data Sets, Unique Aerosol Profiles, Language Options, Battery Life Pump Faults, Flow Rate, In Field Calibration Test, History of Data Sets	Memory & Time Storage	>5 years
Sampling Flow Rate	Sampling Flow Rate: 1-5 Lpm The pump is capable to maintain flow within ±5% as follows: 1.0 Lpm up to 70 Inch H2O; 2.5 Lpm up to 55 Inch H2O, and 5.0 Lpm up to 20 inch H2O.	Digital Output	Micro USB 6.00' (1.83m), A Male to Micro B Male, 28SWG, Shielded
Filter Cassette	37mm preloaded and weighted filter cassette 37mm 1um jeweled cassette for silica particulates 25mm Preloaded cassette	Power Supply	Wall Mount, Multi Bald Included, Voltage Input 100~240 VAC, Voltage Output 12V, Current Output 2A, CE, UL, CB, cUL, PSE, RCM
Attachable Inlets		Battery	Lithium Ion pack, 7.4 Volt 3350 mAh, 24.79 watts
Respirable Inlet	GS-3 Cyclone: 2.75 LPM for 4µm cut point (OSHA silica rule) Meets ISO 7708/CEN criteria GS-1 Cyclone: 2.0LPM for 4µm cut point (OSHA silica rule) 3 LPM for 3.5 cut point (MSHA silica standard) 1.7 or 2.0 LPM with DPM cassette (MSHA DPM sampling) Meets ISO 7708/CEN criteria	Operating Time	22+ hours Running at 2.0LPM with IOM and no filter.
Inhalable Inlet	IOM sampler: 2.0 LPM Meets ISO 7708/CEN criteria	Operating & Storing Conditions	Operating Temperature: 0 to 50°C Storage Temperature: -20 to 70°C Operational Humidity: 0-95% Non-Condensing
Thoracic Inlet	Thoracic Sampling Inlet: 2.0LPM	DUSTCOMM Pro Software	Windows™ driven Windows 10 or greater
Impactors	PM10, PM5.0, PM4.0, PM2.5	Maintenance	Zero Calibration: Before each use In Field Calibration Verification: Before each use Flow Calibration: Before each use. Will automatically change when switching PM selective size. Sensor Cleaning: By user when needed/ or during annual calibration Factory Calibration: Annually or when instrument fails infield calibration verification.
Alarm Output	Audible & Visual Audible: 90db at 3ft Ceiling and S.T.E.L Alarms, Pump Fail, and Low Battery	Weight and Dimensions	Dimensions (Case): 3.5" x 2.25" x 4.75" Sensor Dimensions: 1.75" x 1.5" Weight Instrument: 1.14lbs Weight Sensor: 0.6lbs Display dimensions: 3.5"
		PM Sensor	Sensor Type: 90° light scattering 880 nm Calibrated against Gravimetric reference NIST traceable- SAE fine test dust ISO12103-1 A2 Fine Test Dust.
		Tripod Mounting	Optional Accessory

Optional Wireless Connectivity available. Contact EDC for specifications.

For more information on SM-7240, or to learn more about other particulate monitors available, contact us.

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