Testing Report – PM₁₀ Enhanced Testing Manufacturer & Air Sensor Name

Manufacturer

Model

RH Monitor

Testing Organization
Contact Email / Phone Number
Date

Image of device during chamber evaluation

Testing Details										
Testing Organization	Sen	sor Inform	nation		Attached Documenta	Attached Documentation				
Tooting		Manufacturer,				FEM monitor documentation				
organization (Name, Organization Type)	(Name,					Description, date(s) of maintenance activities				
Organization Type)		Device				Sensor documentati	on			
Contact Information		firmware version				Product specification sheet				
(Website, Phone Number, Email)		Sampling time interval				Product manual				
	PM ₁₀ FEM Monitor Information		#1	#2	#3	Description of parameters measured and units, and data flow				
Manufacturer, model		Manufacturer listed detection				Data storage and transmission method				
Sampling time interval						Data analysis/correction script and version				
Date of calibration						Testing chamber documentation				
Date of flowrate verification check		Manufacturer listed drift				Description of chamber, particle dispenser system, and particle sizer instrument				

Effect of Relative Humidity (RH)

			Average RH (%)	Average T (°C)	Average FEM monitor PM ₁₀ concentration of test aerosol (µg/m³)	Average FEM monitor PM _{2.5} concentration (µg/m³)	PM _{2.5} /PM ₁₀ Ratio FEM monitor concentrations	Average sensor PM ₁₀ concentration (µg/m³)	Averaged influence of RH on sensor measurements (µg/m³)
	Initial Testing Conditions	Setpoint	40 ± 5	20 ± 1	60 ± 5%		≤ 0.4 ± 0.1		
Effect		Measured Value							
of RH	High RH Conditions	Setpoint	85 ± 5	20 ± 1	60 ± 5%		≤ 0.4 ± 0.1		
		Measured Value							

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Effect of Temperature (T)

T Monitor	Manufacturer	
1 Wonton	Model	

			Average RH (%)	Average T (°C)	Average FEM monitor PM ₁₀ concentration of test aerosol (µg/m³)	Average FEM monitor PM _{2.5} concentration (μg/m³)	PM _{2.5} /PM ₁₀ Ratio FEM monitor concentrations	Average sensor PM ₁₀ concentration (μg/m³)	Averaged influence of T on sensor measurements (µg/m³)
	Initial Testing Conditions	Setpoint	40 ± 5	20 ± 1	60 ± 5%		≤ 0.4 ± 0.1		
Effect of T		Measured Value							
	High T Conditions	Setpoint	40 ± 5	40 ± 1	60 ± 5%		$\leq 0.4 \pm 0.1$		
		Measured Value							

60-Day Low Concentration Drift

			Average RH (%)	Average T (°C)	Average FEM monitor PM ₁₀ concentration of test aerosol (µg/m³)	Average FEM monitor PM _{2.5} concentration (µg/m³)	PM _{2.5} /PM ₁₀ Ratio FEM monitor concentrations	Average sensor PM ₁₀ concentration (µg/m³)	Sensor drift after 60 days (µg/m³)
	Day 1	Setpoint	40 ± 5	20 ± 1	15 ± 10%		≤ 0.4 ± 0.1		
60-Day Low	Date	Measured Value							
Concentration Drift	Day 60	Setpoint	40 ± 5	20 ± 1	15 ± 10%		≤ 0.4 ± 0.1		
	Date	Measured Value							

60-Day Mid Concentration Drift

			Average RH (%)	Average T (°C)	Average FEM monitor PM ₁₀ concentration of test aerosol (μg/m³)	Average FEM monitor PM _{2.5} concentration (µg/m³)	PM _{2.5} /PM ₁₀ Ratio FEM monitor concentrations	Average sensor PM ₁₀ concentration (µg/m³)	Sensor drift after 60 days (µg/m³)
	Day 1	Setpoint	40 ± 5	20 ± 1	60 ± 5%		≤ 0.4 ± 0.1		
60-Day Mid	Date	Measured Value							
Concentration Drift	Day 60	Setpoint	40 ± 5	20 ± 1	60 ± 5%		≤ 0.4 ± 0.1		
	Date	Measured Value							

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Accuracy at High Concentrations

		Average RH (%)	Average T (°C)	Average FEM monitor PM ₁₀ concentration of test aerosol (µg/m³)	Average FEM monitor PM _{2.5} concentration (µg/m³)	PM _{2.5} /PM ₁₀ ratio from FEM monitor concentrations	Average sensor PM ₁₀ concentration (µg/m³)	Test averaged difference between sensor and FEM PM ₁₀ concentrations (µg/m³)
	Setpoint	40 ± 5	20 ± 1	200 ± 5%		≤ 0.4 ± 0.1		
Accuracy at High	Measured Value							
Concentrations	Setpoint	40 ± 5	20 ± 1	300 ± 5%		≤ 0.4 ± 0.1		
	Measured Value							