

# SLX-PARTICULATE

AIR QUALITY SENSING HARDWARE SPECIFICATIONS – PARTICULATE MATTER (PM 2.5 & PM10)



MEASUREMENT DATA	
Min PM 2.5/ Min PM 10	Minimum PM 2.5 and PM 10 levels measured in micrograms per meter cubed ( $\mu\text{g}/\text{m}^3$ )
Max PM 2.5/ Min PM 10	Maximum PM 2.5 and PM 10 levels measured in micrograms per meter cubed ( $\mu\text{g}/\text{m}^3$ )
Avg PM 2.5/ Min PM 10	Average PM 2.5 and PM 10 levels measured in micrograms per meter cubed ( $\mu\text{g}/\text{m}^3$ )
Min AQI	Minimum PM 2.5 and PM 10 levels measured in $\mu\text{g}/\text{m}^3$ value converted to AQI value at the edge
Max AQI	Maximum PM 2.5 and PM 10 levels measured in $\mu\text{g}/\text{m}^3$ value converted to AQI value at the edge
Avg AQI	Average PM 2.5 and PM 10 levels measured in $\mu\text{g}/\text{m}^3$ value converted to AQI value at the edge
Calculation Method	Edge computing of data with cellular back-haul to SmartLinx Data Visualization Platform.
Communication	See <a href="#">SLX-Controls Spec Sheet</a>
Reporting Frequency	Automatic reporting in 15 minute increments. Shorter increments available upon request.
Configuration	Over the air (OTA) configurable for modification of parameters, firmware upgrades, etc.

ELECTRICAL/MECHANICAL/ ENVIRONMENTAL	
Electrical Input	See <a href="#">SLX-Controls Spec Sheet</a> for more information. ANSI C136.10 and C136.41 compliant.
Power Consumption	1.5W Avg @120V, 2.25W Max @120V
Vandal Resistance	IK-08
Controller Ambient Rating	-40°C to +60°C (-40°F to +140°F)
Sensor Ambient Rating	-10°C to +45°C (-14°F to +113°F)

CERTIFICATIONS	
Product Safety Certification	See <a href="#">SLX-Controls Spec Sheet</a> for more information.
Cellular Certification	See <a href="#">SLX-Controls Spec Sheet</a> for more information.
Product Field Testing	Report Available at AQMD South Coast labs web site <a href="http://www.aqmd.gov/docs/default-source/aq-spec/field-evaluations/liveable-cities---slx-pm2-5--field-evaluation.pdf?sfvrsn=8">http://www.aqmd.gov/docs/default-source/aq-spec/field-evaluations/liveable-cities---slx-pm2-5--field-evaluation.pdf?sfvrsn=8</a>

DETECTION	
Core Sensor	AlphaSense OPC-R2
Sensor Sensitivity and Performance data	See sensor data sheet on AlphaSense web site <a href="https://www.alphasense.com/wp-content/uploads/2021/05/OPC-R2.pdf">https://www.alphasense.com/wp-content/uploads/2021/05/OPC-R2.pdf</a>

All information provided is subject to change without notice.

# SMARTLINX

## AIR QUALITY SENSING SOFTWARE SPECIFICATIONS



### GRAPHICAL USER INTERFACE

- Intuitive easy to use, secure, 100% web based GUI.
- Displays devices in both a table and map view.
- Displays different devices with individual icons.
- Allows users to create and save logical groups of devices as Bookmarks.
- Mobile friendly utilizing single touch design.

### ASSET MANAGEMENT

- Auto discovery & commissioning + GPS locations of new devices.
- Stores asset information for all device types (traffic, pollution, noise, lighting).
- Enables users to group devices by region (Municipal District).
- Enable users to add, move and modify devices.
- Flexible user customizable inventory lists utilizing a built-in query language.
- Flexible user customizable data export and import.

### REPORTING AND ALERTS

- Flexible user configurable reports based on user defined inventory lists.
- Reports can be filtered by region (Municipal District).
- Displays alerts by region, user definable alert levels.
- Data History of any device can be displayed in a graphical view and exported as a PDF or CSV. Data History can display different sensors at the same time. For example: Displaying traffic volume and pollution levels.
- Multiple devices (traffic, pollution, and noise) can be displayed in Data History to assist with analysis.
- All reports can be scheduled at recurring times utilizing the Automation Center or run on-demand by the user.

### SMART CITY

- Supports TALQ2 Protocol for Smart Cities.
- Supports Open Smart City Protocol (OSCP).
- Extensive robust API for data exchange.

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REPEAT ORDER		
<input type="checkbox"/> YES	<input type="checkbox"/> NO	If YES, last PO #: _____

### ORDERING AND SETUP INFORMATION

Controller Part #			
Quantity			
Customer Name			
Project Name			
Approved By			
Date			
Comments			
<b>Internal:</b>			
Network Type	LTE-M	NB-IoT	LTE
Customer ID#			
<b>For SmartLinx Setup (Not Required For Repeat Orders)</b>			
Default Lighting Type Example: LED, HPS, Mixed, Other			
Dimming	0-10V	DALI	None
Address	Lat: _____ Long: _____		
SmartLinx Site Admin	Name _____		
	Phone _____		
	Email _____		

\*Network Type applies to Controller.

### AUTOMATIONS AND ANALYTICS

- Automation Center to allow users to define custom business logic specific to their needs.
- Automation Center includes building blocks for Events, Notification Action, Ticket Actions, Analytics, Command Actions and Active Period.
- Automations allows for the generation of alarms or alerts to an individual users or groups of users via email or SMS.
- Automations can be filtered by Region (i.e. Municipal Districts).
- Automation allows for the generation of alarms or alerts at the expiration of a timer or scheduled on a specific time and date.
- Automation allows for the generation of alarms or alerts based on the analysis of incoming data.
- Automation supports user generated one-time or recurring reports.
- Supports heat maps analytics.

### USER MANAGEMENT, ROLES & PERMISSIONS

- User Management to limit users to specific Role and Group Permission.
- User Roles to limit user to specific Applications and Devices.
- User Permissions to limit user to Create, Update and Delete devices.
- Supports Active Directory, SAML 2.0
- Extensive audit trail by user, time stamp and activities.