

SLX-A-PM 2.5

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



MEASUREMENT DATA	
Min PM 2.5	Minimum PM 2.5 level measured in micrograms per meter cubed ($\mu\text{g}/\text{m}^3$)
Max PM 2.5	Maximum PM 2.5 level measured in micrograms per meter cubed ($\mu\text{g}/\text{m}^3$)
Avg PM 2.5	Average PM 2.5 level measured in micrograms per meter cubed ($\mu\text{g}/\text{m}^3$)
Min AQI	Minimum PM 2.5 levels measured in $\mu\text{g}/\text{m}^3$ value converted to AQI value at the edge
Max AQI	Maximum PM 2.5 levels measured in $\mu\text{g}/\text{m}^3$ value converted to AQI value at the edge
Avg AQI	Average PM 2.5 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.
Data Reporting Method	Cellular (LTE-M) back-haul of data from the device
Reporting Frequency	Automatic reporting in 15 or 60 minute increments
Configuration	Over the air (OTA) configurable for modification of parameters, firmware upgrades, etc.

ELECTRICAL/MECHANICAL/ ENVIRONMENTAL	
Voltage	120-277VAC, ANSI C136.10 and C136.41 complaint
Power Consumption	Avg 3W @120V
Vandal Resistance	IK-08
Configuration	-30 to +50°C
Sensor Ambient Rating	-10°C to +45°C

CERTIFICATIONS	
Product Safety Certification	UL, CE
Cellular Certification	PTCRB
Product Field Testing	Report Available at AQMD South Coast labs web site http://www.aqmd.gov/docs/default-source/aq-spec/field-evaluations/liveable-cities---slx-pm2-5---field-evaluation.pdf?sfvrsn=8

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

All information provided is subject to change without notice.

SMARTLINX

AIR QUALITY SENSING SOFTWARE SPECIFICATIONS

REPEAT ORDER

YES NO



ORDERING AND SETUP INFORMATION	
Quantity	
Customer Name	
Project Name	
Approved By	
Date	
Comments	
SmartLinx Site Admin	Name
	Phone
	Email

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.

AUTOMATIONS AND ANALYTICS

- Automation Center to allow users to defined 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 (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.

SMART CITY

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

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