

SMARTLINX SLX-A-NO2

REPEAT ORDER

YES NO

AIR QUALITY SENSING SOFTWARE SPECIFICATIONS – NITROGEN DIOXIDE (NO₂)



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.

All information provided is subject to change without notice.

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AIR QUALITY SENSING HARDWARE SPECIFICATIONS – NITROGEN DIOXIDE (NO₂)

MEASUREMENT DATA	
Min NO ₂	Minimum NO ₂ level measured in parts per million (ppm)
Max NO ₂	Maximum NO ₂ level measured in parts per million (ppm)
Avg NO ₂	Average NO ₂ level measured in parts per million (ppm)
Min AQI	Minimum NO ₂ levels measured ppm value converted to AQI value at the edge
Max AQI	Maximum NO ₂ levels measured ppm value converted to AQI value at the edge
Avg AQI	Minimum NO ₂ levels measured ppm value converted to AQI value at the edge
Alarm Level	User settable Alarm level based on Avg detected
Calculation Method	Edge computing of data with cellular back-haul to SmartLinx Data Visualization Platform
Data Reporting Method	Cellular (LTE-M or NBIoT) back-haul of data from site.
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	120-277V, ANSI C136.10 and C136.41 Compliant
Power Consumption	1W at 120VAC
Dimensions	89 mm (diameter) x 173 mm (height)
Weight	~ 160 g
Vandal Resistance	IK-08 (and protected by installation location)
Controller Ambient Rating	-40°C to +60°C
Sensor Ambient Rating	-30°C to +40°C

CERTIFICATIONS	
Product Safety Certification	UL, CE
Cellular Certification	PTCRB

DETECTION	
Core Sensor	AlphaSense NO2-B43F
Sensor Sensitivity and Performance data	See sensor data sheet on AlphaSense web site http://www.alphasense.com/WEB1213/wp-content/uploads/2019/09/NO2-B43F.pdf

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