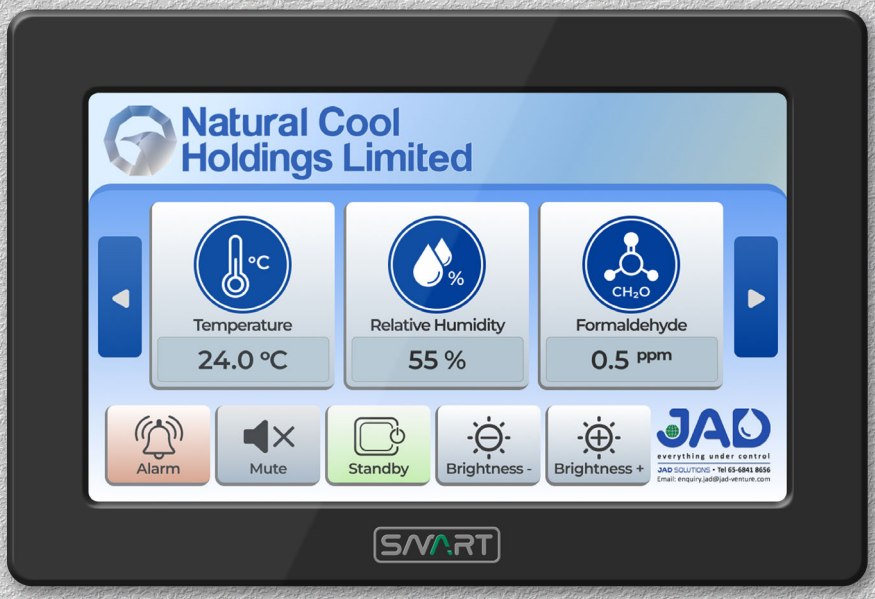
SMART MONITOR

JAD SMART SAQM-7000 Series

10.1” Touch Screen Indoor Air Quality (IAQ) Monitoring System



JAD SMART SAQM-7000 Series
10.1” Touch Screen Indoor Air Quality Monitoring System

SAQM-7000 Indoor Air Quality Monitoring System, part of SMART Intelligent Area Control Series, offers precise intelligent monitoring and control solutions for Indoor Air Quality (IAQ) in diverse applications.

With low latency connection, SAQM-7000 enables quick responses to changes in indoor air quality by advanced control program system to achieve optimal result of Indoor Air Quality. Software is accessible, able to diagnose and update via cloud system.

In rooms equipped with Variable Air Volume Control Systems, SAQM-7000 intelligently monitors and adjusts parameters in real-time, enhancing safety for indoor personnel with alarms to notify for unsafe conditions.

The SMART IAQ Sensor offers high sensitivity and accuracy in measuring indoor air quality and properties. SAQM-7000 operates independently, displaying real-time values on a 10.1” touch screen monitor screen for monitoring.

Seamless integration with SZC controllers allows quick adjustments to air flow, ensuring compliance with safety standards and minimizing energy consumption. SAQM-7000 supports third-party controllers, exchanging real-time data.

The cloud system continuously monitors and update the system based on the latest database and artificial intelligence models, providing tailored settings to suit users need. Users can customize settings as needed, adapting to different scenarios.

Features:

SENSITIVE AND ACCURATE SENSORS:
Sensors that detect various contaminants present in air with high sensitivity and accuracy.

MULTIPLE DETECTOR IN SINGLE SENSOR:
The sensor can detect multiple different units of data and readings simultaneously.

SENSOR CALIBRATION PROGRAM:
The sensor calibration program allows to monitor sensor operational status and allows calibration.

INDEPENDENT OPERATION:
The monitoring system can operate independently and display data on-site.

CLOUD SYSTEM CONNECTIVITY:
Access to the intelligent cloud system via network allows for optimal control solutions and updates.

CONNECTIVITY OPTIONS:
Connectivity to intelligent SZC controllers or third-party controllers for quick adjustments and real-time data exchange.

MULTIPLE ROOMS MONITORING:
Capable of monitor simultaneously up to 6 rooms.

LOW LATENCY RESPONSE:
Latency with less than 1 second ensures a prompt response to real-time data updates.

TOUCH SCREEN INTERFACE:
The touch screen provides user friendly experience to the screen graphic interface.

10.1” Touch Screen Monitor

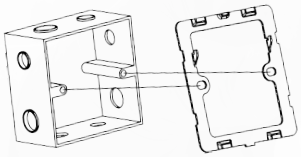
IAQ Sensors


Controller Panel

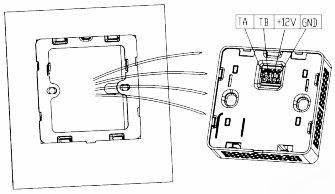
SPECIFICATIONS:

Model	SAQM-7423	SAQM-7648
Capacity	Up to 12 composite sensors, 3 rooms	Up to 24 composite sensors, 6 rooms
Outputs	Alarm Signals: 3 channels (Relay)	Alarm Signals: 6 channels (Relay)
	Command Signals: 3 channels (0-10VDC)	Command Signals: 6 channels (0-10VDC)
Inputs	Alarm Buttons: 3 channels (Passive Dry Contacts)	Alarm Buttons: 6 channels (Passive Dry Contacts)
Communication Protocols	Master Modbus RTU, Slave Modbus RTU, or BACNet MS/TP	Master Modbus RTU, Slave Modbus IP, or BACNet IP
Display	10.1-inch Capacitive Color Touchscreen, Wall-Mounted	10.1-inch Capacitive Color Touchscreen, Wall-Mounted
Air Quality Sensor	**Model: KAQ-1510MR**	**Model: KAQ-1510MR**
	TVOC: 0~10ppm, Accuracy ±30%	TVOC: 0~10ppm, Accuracy ±30%
	Formaldehyde (CH_2O): 0~1ppm, Accuracy ±30%	Formaldehyde (CH_2O): 0~1ppm, Accuracy ±30%
	Carbon Dioxide (CO^2): 0~5000ppm, Accuracy ± 50ppm + 5%	Carbon Dioxide (CO2): 0~5000ppm, Accuracy ± 50ppm + 5%
	PM2.5: 0~1000μg/m³, Accuracy ±10%	PM2.5: 0~1000μg/m³, Accuracy ±10%
	PM10: 0~1000μg/m³, Accuracy ±10%	PM10: 0~1000μg/m³, Accuracy ±10%
	Temperature (T): 0~50°C, Accuracy ±1.0°C	Temperature (T): 0~50°C, Accuracy ±1.0°C
	Relative Humidity (RH): 0~95%, Accuracy 8%	Relative Humidity (RH): 0~95%, Accuracy ±8%
	Optional Standalone CO^2 Sensor: Carbon Dioxide (CO^2): 0~5000ppm, Accuracy ± 50ppm + 5%	Optional Standalone CO^2 Sensor: Carbon Dioxide (CO^2): 0~5000ppm, Accuracy ± 50ppm + 5%
Host Power Supply	220/110 VAC @ 50/60Hz, Max Power 300 W	220/110 VAC @ 50/60Hz, Max Power 300 W
Host Chassis Size	450 x 350 x 135 mm	450 x 350 x 135 mm
Host Installation	Indoor Wall-Mounted	Indoor Wall-Mounted
Host Weight	10 Kg	10 Kg
Sensor Power Supply	12 VDC, Max Working Current 120mA, Powered by the Host	12 VDC, Max Working Current 120mA, Powered by the Host
Sensor Signal Output	RS485	RS485
Sensor Size	86 x 86 x 24.9 mm	86 x 86 x 24.9 mm
Sensor Installation	Indoor Wall-Mounted	Indoor Wall-Mounted
Operating Environment	Temperature: -20 ºC to 60 ºC	Temperature: -20 ºC to 60 ºC
	Relative Humidity: 5% to 95%, non-condensing	Relative Humidity: 5% to 95%, non-condensing

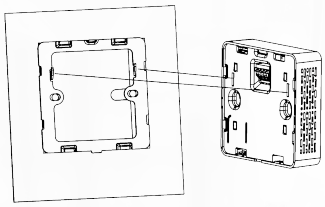
Installation Notes:



Step 1: Fix the wall bracket with screws on the bottom box embedded in the wall, as shown

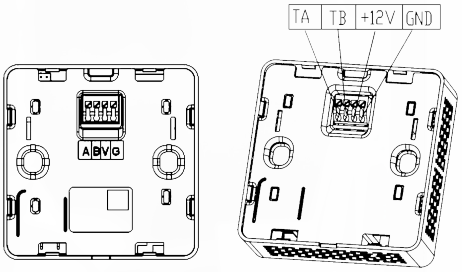


Step 2: Wiring, connect the corresponding cables to the RS485 interface of the controller according to the interface.



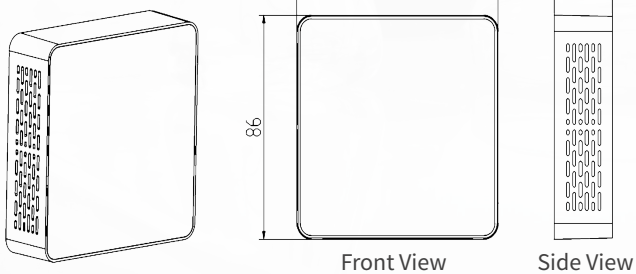
Step 3: Align the two holes in the controller diagram with the hooks in the wall bracket, and slide the controller downward to ensure that the upper and lower buckles of the controller are tightly locked with the bracket.

Wiring Diagram:



Serial No.	Pin	Mode
1	TA	Communication Interface (RS485_TA)
2	TB	Communication Interface (RS485_TB)
3	+12V	Power Input Terminal (+12V)
4	GND	Power Input Terminal (GND)

IAQ Sensor Dimension (mm):



Front View Side View

JAD
everything under control
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