Smart Indoor Air Quality Monitor

Smart Agriculture, Smart Building, Smart Facility, Smart Farm, Smart Healthcare, Smart Retail

daviteq

SKU: SIAQ

SMART INDOOR AIR QUALITY
SIAQ

SIAQ-H1.JPG

✓ Safe Zone   ◯ Hazardous Zones

SIAQ is a Smart and Modular designed Indoor Air Quality Monitor, equipped with a touch and beautiful color LCD display for easy viewing at a distance and noticing the alerts by color changing. With ModbusRTU or ModbusTCP, it can easily integrate into the existing BMS system, PLC, SCADA system in your facility, or factory. With Wifi, Ethernet, or NB-IoT version, it can connect to Globiots platform or any IoT platform for remote monitoring and data analytics. For Sigfox and LoRaWAN versions, please contact us. The device has built-in sensors to measure temperature, humidity, CO_2, PM1.0, PM2.5, PM10, TVOC, and HCHO formaldehyde. Those advanced sensors are from Germany, Japan, and the USA to deliver the highest accuracy and stability.

This professional smart IAQ monitor is used in office buildings, schools, hospitals, factories, warehouses, laboratories... or any facility.
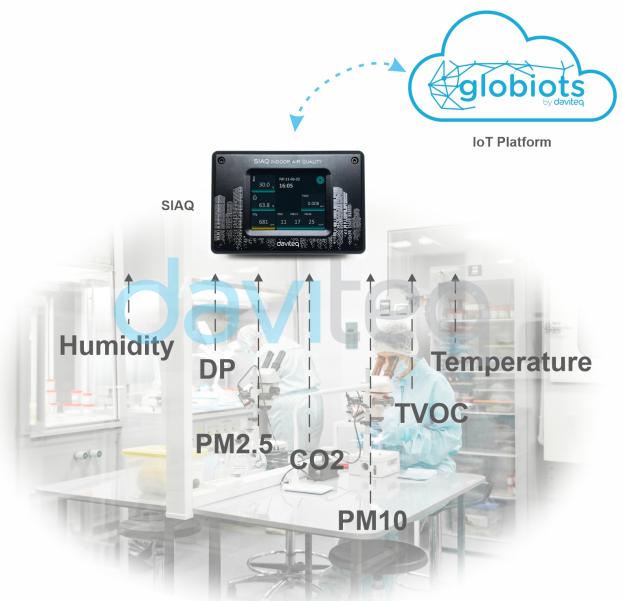
Applications

Indoor Air Quality Monitor, Gas Analyzing, Warehouse Monitoring

Notes For Applications

✓ **Advanced Environment Sensors**
Deliver high accuracy and stable measurment

✓ **Modular Design**
Allow customise the measuring easily

✓ **Touch color LCD Display**
Easy view in the far distance and noticing the alerts by different colors

✓ **IoT Connectivity**
Connect to Globiots or any IoT Platform via WiFi, Ethernet, NB-IoT, Sigfox, LoRaWAN

AMBIENT MONITORING

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Specification

Measurement	All in one device to measure indoor ambient Temperature, Humidity, CO_2, PM, TVOC, and HCHO formaldehyde.
Temperature range/ resolution/ accuracy	-20~70℃/ 0.1℃/ ±0.1℃
Humidity range/ resolution/ accuracy	0~100% RH/ 0.1% RH/ ±3.0% RH
CO_2 range/ resolution/ accuracy	0~40000 ppm/ 10ppm/ (±30ppm + 3% reading)
HCHO range/ resolution/ accuracy/ Limit of detection	0-1000 ppb/ 1 ppb/ ±20 ppb or ±20% reading which ever is greater/ < 20 ppb
HCHO sensor life	> 6 years
Mass concentration	PM1.0, PM2.5, and PM10
Mass concentration range	1~999µg/m³
Mass concentration resolution	1µg/m³
Mass concentration accuracy	±10µg/m³
Lower limit of detection	0.3µm
Time to recalibrate PM sensor	4.5 years
TVOC range/ resolution/ accuracy	160~10000ppb/ 1ppb/ ±15% of Reading
COMMUNICATION	
Display	None or 2.8" color touch screen LCD display
IoT Connectivity	Select WiFi 2.4GHz or Ethernet or 3G-Dual Band or 4G Cat M1/NB1
SCADA Connectivity	Optional ports: RS485/ModbusRTU, Ethernet or WiFi with ModbusTCP
Housing	ABS plastic and Anodized Aluminum (model with LCD Display), IP20 protection
Power supply	220VAC/50Hz (adapter)
Dimension/ Net weight	120x82x55 mm/ <500g

Connect SIAQ to Any PLC, HMI or IoT Platform

ANY IoT Platform

PLC   HMI   Any IoT Gateway

ModbusRTU / ModbusTCP

Temperature   Humidity

CO₂   PM2.5 / PM10   TVOC
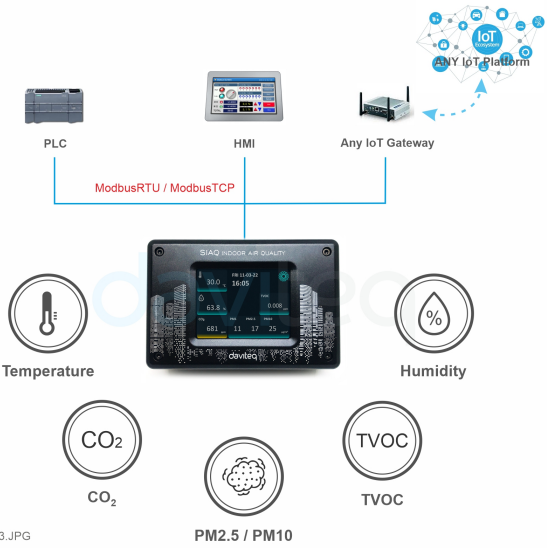
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MONITORING AIR QUALITY IN THE LAB

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AIR QUALITY MONITORING IN PRODUCTION

SIAQ-H5.JPG

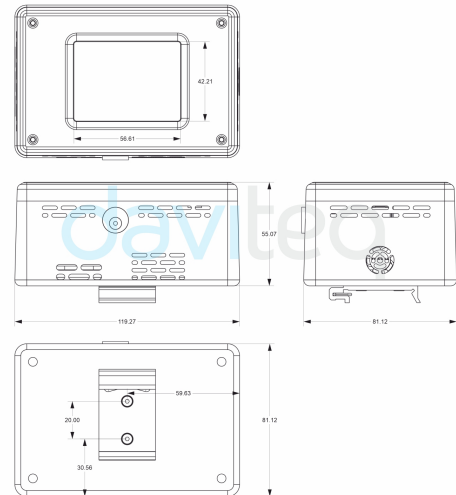## MONITOR DATA EVERYWHERE VIA IoT GLOBIOTS PLATFORM

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MONITOR AND RECEIVE ALERTS BY PHONE

SIAQ-H7.JPG

DIMENSION DRAWING
(Unit: mm)

SIAQ-H8.JPG

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Ordering Information

ITEM CODE	DESCRIPTION
SIAQ-WF-01-N	Smart Indoor Air Quality Monitor, WiFi 2.4GHz, TEMPERATURE-HUMIDITY-TVOC-CO2, No display
SIAQ-WF-02-N	Smart Indoor Air Quality Monitor, WiFi 2.4GHz, TEMPERATURE-HUMIDITY-TVOC-CO2-PM2.5-PM10, No display
SIAQ-WF-02-D28	Smart Indoor Air Quality Monitor, WiFi 2.4GHz, TEMPERATURE-HUMIDITY-TVOC-CO2-PM2.5-PM10, 2.8" LCD with touch
SIAQ-RS485-02-D28	Smart Indoor Air Quality Monitor, RS485 ModbusRTU output, TEMPERATURE-HUMIDITY-TVOC-CO2-PM2.5-PM10, 2.8" LCD with touch