
Kaiterra Square Technical Specifications

Particulate Matter 2.5 (PM_{2.5})

Sensor Type: Laser Particle Sensor (Light Scattering)

Measuring Range: 1 - 1000 µg/m³

Sensor Output Resolution: 1 µg/m³

Accuracy: ±10 % (<30 µg/m³: ±3 µg/m³)

Total Volatile Organic Compounds (TVOCs)

Sensor Type: Metal Oxide Semiconductor Sensor (MOS)

Measuring Range: 0 - 60000 ppb

Sensor Output Resolution: 1 ppb

Accuracy: ±15 %

Carbon Dioxide (CO₂)

Sensor Type: Non-Dispersive Infrared Detector (NDIR)

Measuring Range: 400 - 10000 ppm

Sensor Output Resolution: 1 ppm

Accuracy: ±3 % ±50 ppm

Temperature

Sensor Type: Digital Sensor

Measuring Range: -20 - 100 °C

Sensor Output Resolution: 1 °C

Accuracy: ±1 °C

Relative Humidity

Sensor Type: Digital Sensor

Measuring Range: 0 - 99 %RH

Sensor Output Resolution: 1 %RH

Accuracy: ±5 %RH

Dimensions

Length: 90 mm (3.5 in)

Width: 90 mm (3.5 in)

Height: 50 mm (2.0 in)

Visible Part After Installation

Length: 90 mm (3.5 in)

Width: 90 mm (3.5 in)

Height: 12 mm (0.5 in)

Weight

300 g (0.66 lbs)

Connectivity & Intergration

Wi-Fi Connection 2.4 GHz 802.11 b/g/n

Ethernet*

Modbus

* Available upon requests

Operational Environment

Operational Temperature: 0 - 50 °C

Operational Humidity: 5 to 95 %RH, non-condensing

Data Storage & Logging

Log Interval: 1 minute, 1 hour, 1 day

Data Push Interval: 1 minute *

Onboard Memory: 1 hour of data

* Customizable upon requests

Power Consumption

Input: 100 - 240 V AC / 10 - 30 V DC *

Operating: 10 W

* Available upon requests

Warranty & Durability

Standard Warranty: 1 year *

Expected Lifespan: 5 to 7 years

* Optional extended warranty w/ contract

Certifications

RESET Grade B Monitor

SRRC

