



Company: Small Data Garden
Product name: IOTSU® AQ09 Combo for LoRaWAN®
Product code: IOTSU® L7 AQ09
Rev: 1.2_21stDec 2023



IOTSU® AQ09 Combo for LoRaWAN®

IOTSU® AQ09 Combo is a wireless indoor device designed for measuring and recording of changes in air quality. Air quality is assessed as a combination of particulate matter, temperature, humidity, and the concentration of carbon dioxide (CO₂) and volatile organic compounds (tVOC).

The device can be mounted on any surface within the monitored space. Installation of this maintenance-free device is quick and easy. Transmission and measurement cycles can be adjusted according to the need.

IOTSU® AQ09 Combo uses the global LoRaWAN® network connection. There is no need for external power supply. Depending on transmission settings and environmental factors the battery of the device can last 5 years.

MEASURING AND RECORDING:

- Temperature, Humidity
- CO₂, tVOC & PM

TECHNICAL SPECIFICATIONS:

Dimensions	: 124 x 120 x 40 mm
Weight	: 445 g with battery
Sensors	: Particulate Matter, CO ₂ , tVOC, Temperature, Humidity
Transmission cycle	: 1 h, adjustable
Measurement cycle	: Transmission cycle /2, adjustable
Connectivity	: LoRaWAN®
Battery	: 2 x Size D, 3.6 V, lifetime with default settings 5 years, replaceable
Operating Conditions	: 0 °C...50 °C, Relative humidity 20...80 % (Non-condensing)
Typical Accuracy	: Temperature: ±0.2 °C Humidity: ±2 %, CO ₂ : ±30 ppm ±3 % of reading, tVOC: ±15 %, PM _{2.5} : ±10 µg/m ³ , PM ₁₀ : ±25 µg/m ³
Certifications	: CE
Mounting	: Screws, adhesive tape

Small Data Garden Oy's (SDG) products (IOTSU® Products) shall be used according to the manual and other instructions and not be used in any other way than their intended use defined by SDG. IOTSU® Products are designed for LPWAN technologies collecting non-critical information. SDG will not be held liable for any damage which may result from inaccurate readings and delayed data transmission. In case regular calibration of IOTSU® Products is needed, SDG shall not be responsible for this, and it is the Customer's responsibility to obtain calibration from a suitable service provider. For more information see SDG's General Terms and conditions for the supply of products and Legal Notices.

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Small Data Garden Oy's (SDG) products (IOTSU® Products) shall be used according to the manual and other instructions and not be used in any other way than their intended use defined by SDG.

The user right of the firmware of SDG is limited to the version and specifications confirmed by SDG. Any unauthorised usage of device is prohibited and must be suspended by request of SDG. In addition, SDG is entitled to charge for unauthorised usage including administrative and solving cost. SDG shall not be responsible for damages caused by the user connecting the SDG's products (IOTSU® Products) and/or using the IOTSU® Products in any other way than their intended use nor for any damages caused by materials or product design defined by the client or by the working or manufacturing processes the client has determined.

IOTSU® Products are designed for collecting non-critical information for optimising energy consumption in long term usage and the IOTSU® Products are not intended to be used for life and security critical solutions. We rely on high-quality sensor, component and software suppliers and manufacturers and IT, LP-WAN and cloud service providers. However, for the reason that the accuracy and redundancy is depended among other things on operating circumstances, radiotechnology specifications and coverage, and because SDG relies on specifications provided by its suppliers, SDG will not be held liable for any damage which may result from inaccurate readings.

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