

Datasheet - Nubo Monitor One

IoT sensor node for Nubo Air environmental monitoring system

- Highly reliable
- Nubo cartridge system
- Outdoor rated design
- Data & battery buffer
- Worldwide LTE coverage
- One-touch provisioning
- Solar-powered (optional)



Product Summary

Nubo Monitor One is the base platform for environmental monitoring products such as Nubo Air. The product follows Sensirion's philosophy and focuses on stable performance, data quality and easy handling. In combination with Nubo cartridges, such as NC-E1, Nubo Monitor allows for easy, cost-effective yet accurate and long-term reliable environmental monitoring.

The Nubo Monitor One is the IoT base system for environmental monitoring. For correct operation it requires measurement cartridges, like the NMO-CE1 cartridge for PM2.5, RH, T and p measurement. For data access an account with valid Nubo Cloud subscription is needed. This subscription includes data connectivity, data access, device management and API access.

For easy testing and evaluation, we recommend the evaluation Kit NMO-EVAL-CE1, which includes various mounting options, a wall-socket power supply and solar panels. On top the package includes one year of a free Nubo Cloud subscription.

System Specifications

Feature	Specification
Communication	Mobile network, LTE 4G Cat. M1 and 2G (SIM included)
Sampling time	1 minute
Communication loss behavior	1h without data loss
Power loss behavior	1 day without data loss
Power supply	9-24V DC
Power connection	IP67 connector
Power consumption	1.5W typical, 9W peak consumption
Enclosure	Water resistant IP65
Dimension	264 mm x 161 mm x 81 mm excluding mounting plates and cartridges
Weight	1.5 kg
Mounting	Pole or wall mounting option
Operating temperature range	-10 ... 50°C
Expected operating lifetime	Dependent on weather conditions, typically 5 years
Standards	Compliant to FCC according to 47 CFR, Part 15 Subpart B and CE declaration of conformity

Solar-powered variant (optional)

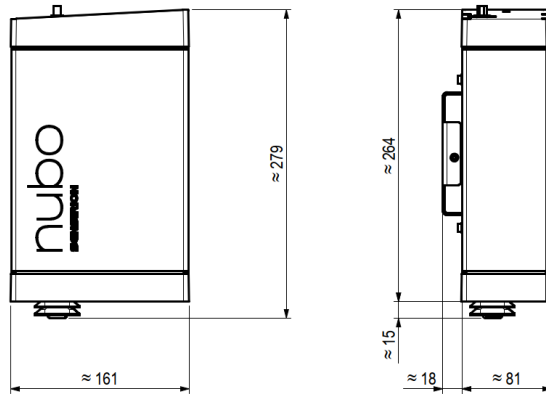
Feature	Specification
Communication	Mobile network, LTE 4G Cat. M1 and 2G (SIM included)
Sampling rate	15 minutes
Communication loss behavior	15h without data loss
Region of operation	-54° to 54° latitude (e.g. Hamburg, Germany)
Solar operation time	Min. 5 years
Dimension of solar panel	274 mm x 220 mm
Enclosure	Water resistant IP65
Total Weight	1.8 kg (including solar panel)
Mounting	Pole or wall mounting option
Operating temperature range	-10 ... 50°C
Expected operating lifetime	Dependent on weather conditions, typically 5 years
Certifications	Compliant to FCC according to 47 CFR, Part 15 Subpart B

Data Storage and Access

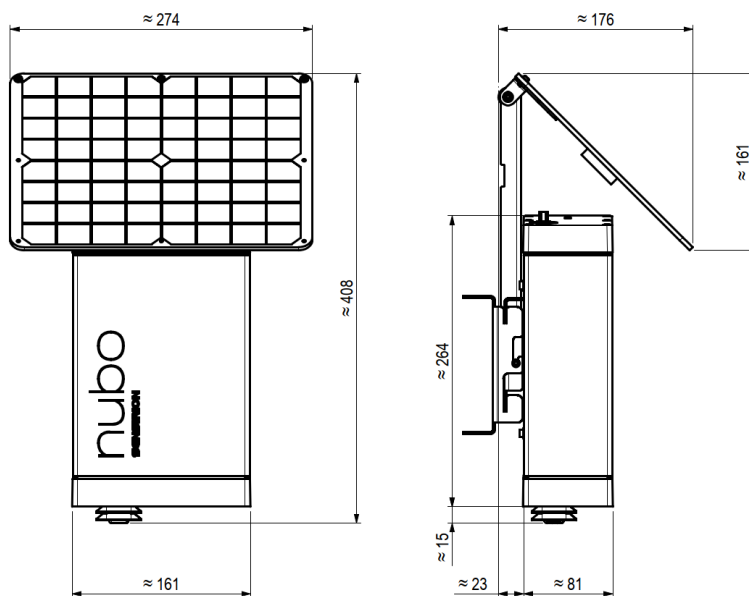
All Nubo Monitor One come preconfigured and connect automatically to Nubo cloud with a network coverage including most of the world. Data download via web-interface or API is included in the Nubo Cloud subscription.

Technical Drawings

Nubo Monitor One (for demonstration purposes with one NC-E1 cartridge installed)



With photo-voltaic panel



Contact and further information

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