

AVAILABLE
Q2 2026

OUTDOOR ACOUSTIC EVIDENCE SYSTEM

RANOS ONE

Precision LoRaWAN Noise Node

- ✓ Performance according to IEC 61672-1:2014 Class 1
- ✓ Worldwide 24/7/365 autonomous operation
- ✓ Suited for permanent outdoor use
- ✓ Plug-and-play delivery with pre installed full battery, pre-configured LoRa keys and pole+wall mount accessories
- ✓ Readings via USB-C and ConnectAPP (realtime, local) or via LoRa and Dashboard+ (Cloud)
- ✓ GPS for Accurate Timestamps & Positioning
- ✓ Switchable Antennas: Internal Patch or ext. (SMA)

**Gain valuable insights, assess noise pollution
and boost safety & comfort**

Object:

Purpose:

Application:

Specs:

RANOS ONE

Precision Noise Data Acquisition

Suitable for permanent autonomous outdoor use

Accuracy

Performance according to IEC 61672-1:2014 class 1.

Linear dynamic range of 39-123 dB(A) according to class 1 tolerances.

Microphone Specifications

Free-field 1/4" diameter MEMS

IP67 Advanced ingress and moisture protection with Gore membrane

Compatible with standard 1/4" Field Sound Level Calibrators (1kHz, 94dB)

23 Hz- 20 kHz (-1 dB, +1 dB)

15 Hz - 23 kHz (-3 dB, +3 dB)

Windscreen Specifications

Weather and UV resistant

Water repellent coating

Integrated locking mechanism and birdspike

Measurement Specifications & Signal Processing

Leq and hold time range 1-3600 sec,

0,1dB resolution

Single Level Range of 39-123 dB(A)

*Acoustical noisefloor: 30 dB(A), 32 dB(C), 41 dB(Z)

Full digital signal processing (56 bit) after conditioning and 48kHz/24bit AD conversion

Measurement quantities

LAFast, LASlow, LAeq, LAFmin, LAFmax

LCFast, LCSlow, LCeq, LCFmin, LCFmax

Additional measurements/weightings via USB or upon use-case request

Wireless Communication

LoRaWAN EU868, US915, AU923 and others depending on regional model.

LoRaWAN Class A

LoRa Keys pre-provisioned for Over-The-Air-Activation (OTAA)

Power supply

Integrated Sealed Lead Acid (VRLA) 6V, 12Ah (Yuasa NP12-6 or equivalent)

24VDC via Circular Connector

Solar Power (9,4Wh Panel included)

USB-C PD for power, charging and config

Ranges and Environmental conditions

Operating temperature: -10 to +50 degrees Celcius

Humidity: Up to 95% RH non-condensing

Rating

Outdoor Use IP54

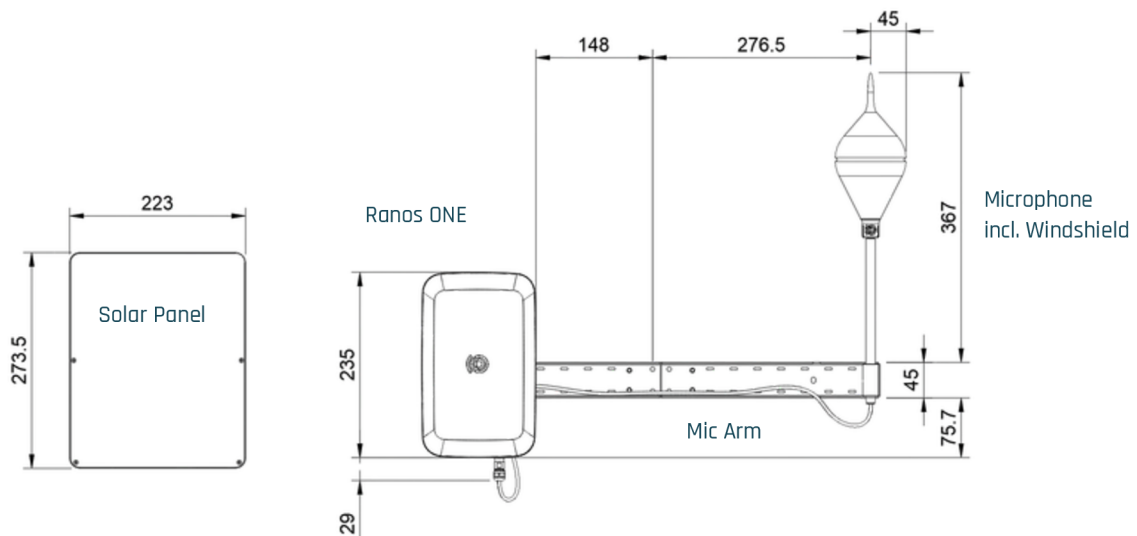
IEC 62672-1:2014

CE

*Preliminary data

V260227

Dimensions:



Complete your Acoustic Evidence System:

Configuration:

DSS ConnectAPP

The DSS ConnectAPP is a webapp that offers simple configuration options and live readings from the Ranos ONE. Simply use a Google Chrome or Opera browser to navigate to app.dutchsensormsystems.com and follow the instructions to access the device and adjust the parameters.

Visualisation & Insights:

DSS DashBoard+

The native platform to help you get the best insights from your Ranos ONE monitoring systems. Featuring basic graphs as well as event-based alerts, reporting and our advanced Noise Budgeted Prediction to help Construction sites, Events and Industry comply with daily limits and avoid costly fines.

We are working on other advanced Noise Data interpretation features. Keep posted.



V260227

Dutch Sensor Systems B.V.

Antennestraat 66 | NL-1322 AS Almere | +31(0)36 209 1234 | info@dutchsensormsystems.com | www.dutchsensormsystems.com
KVK/CoC 78671779 | BTW/VAT NL861491014.B01 | IBAN NL41RAB00359845746