



munisense

MSSPC

Noise monitoring station class 1 certified

Measuring noise remotely has never been easier and more reliable. The MSSPC noise monitoring station is rapidly deployable, energy efficient, weatherproof, wireless and comes with LTE-M communication.

Optimized for temporary use

MSSPC is optimized for temporary noise measurements like monitoring music events, construction activities and noise complaints. The system functions without power for a long time, up to 8 days on the internal battery, and with an external battery pack or solar panel continuously.

Internal data storage prevents loss of measurement data should the connection to the platform fail. The system also uses LTE-M communication, that allows deployment of the meter at remote locations. The compact MSSPC can be attached to a lighting or measuring mast easily and quickly, at any height. It can be managed remotely and is suitable for measurements in places without internet and/or energy facilities. The optional GPS function flawlessly registers the measurement location.

Data immediately available

The MSSPC streams all noise parameters, spectral information and audio in real time to the Munisense platform. Within seconds upon receipt the data

is available for (automatic) analysis, reporting and alarms. The measurement system supports progressive noise values, virtually all internationally standardized noise parameters and the 1/3 octave bands from 10 Hz to 20 kHz, which are sampled every second.

Audio can be streamed to the platform in real time for instant listening. In addition, the audio is stored in the meter to retrieve relevant audio (automatically) afterwards, This saves quite some telecom costs.

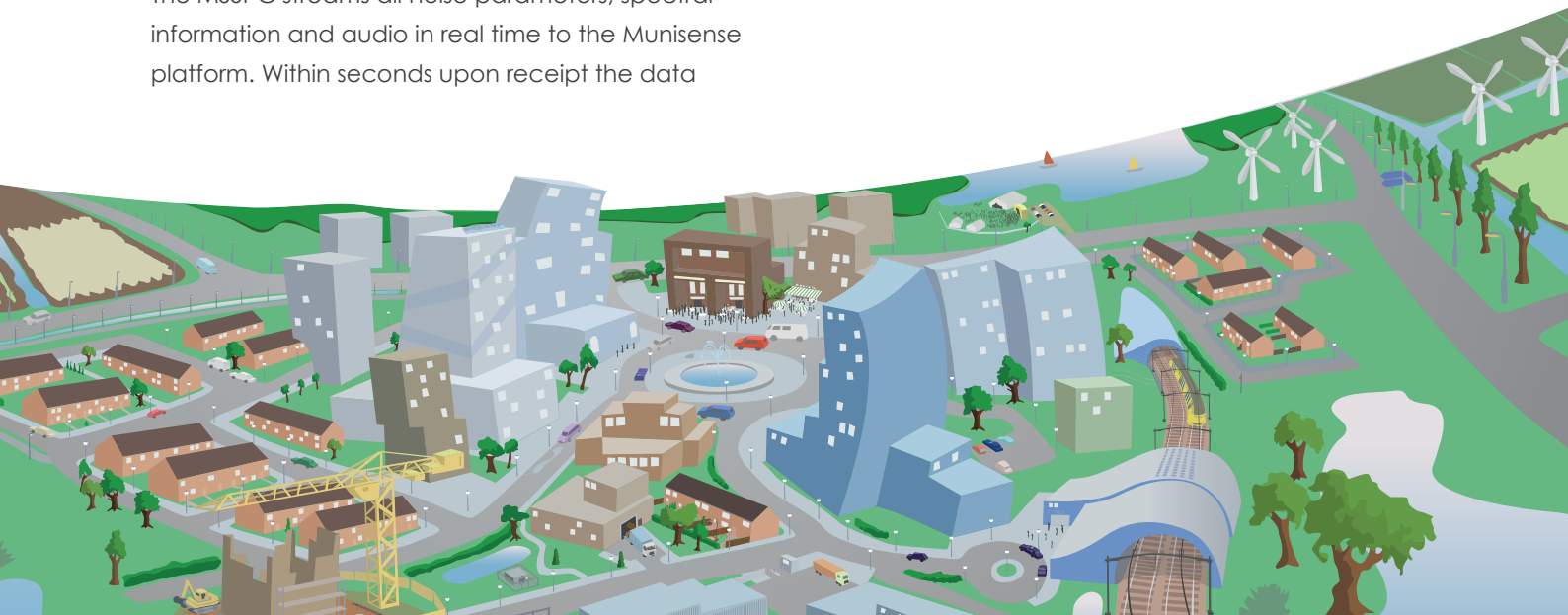
IEC 60651/60804/61672 certified class 1

Suitable for legal use

Optimized for temporary measurements

Internal storage protects all data

Prepared for connecting weatherstations



| Munisense Class 1 Noise Monitoring Station | MSSPC |
|--|---|
| Standard | |
| IEC 60651/60804/61672 | Class 1 |
| PTB Admission MSSPC pending, MSSPA: ZDS-DE-16-M-PTB-0058 | |
| Measured values | |
| Supported noise levels | $L_F, L_{MAX}, L_{EQ}, L_E, L_I, L_{PEAK}, L_{ATM5}$ LCF, LCS, LCF _{MAX} , LCS _{MAX} , LC _{EQ} , L _{EQ} , L _{MAX} |
| Advancing L _{EQ} | T= 1, 60, 180, 300, 900, 3600 sec |
| Percentiles * | L _{nn} (nn can be any value) |
| Other calculated values * | CEL, tonality, ... |
| Frequency weightings | dB(A), dB(C) |
| Time weighting | Fast, Slow, Impulse, Peak |
| Measurement range total | 20 - 140 dB(A) |
| Measurement ranges (overlap) | 2 |
| Resolution | 0,01 dB |
| Accuracy | 0,7 dB |
| Noise floor of the meter | 5 dB(A) |
| Spectra, 1/3 Octa | 10 Hz - 20 kHz |
| Audio | OggVorbis quality (8 kHz) |
| Microphone | |
| Type | Omni |
| Diameter | 1/2" |
| Heater | Yes |
| Microphone cable extendable | upto 10 m |
| Weather protection | RVS |
| Storage | |
| Levels (second values) | 6 months |
| Spectra | 6 months |
| Audio | 2 months |
| Capacity | 64 Gb |
| Network | |
| WAN | LTE-M |
| Authentication (server and client) | TLS v1.2 |
| LAN | ZigBee |
| Energy | |
| Consumption | 0,2 W |
| Consumption using audio | 0,3 W |
| Consumption using LTE-M | 0,6 W |
| Connecting adapter | 12 - 30 V |
| Supports solar energy (MPPT) | Yes |
| Battery (Li-Ion) | |
| Capacity | 105 Wh |
| Operating time | 4 - 10 days |
| Environmental conditions | |
| Long term outdoor measurements | Yes |
| Temperature | -20 - 60 °C |
| Temperature charging Li-Ion battery | -20 - 45 °C |
| Humidity | 10 - 99 % |
| Ingress Protection | IP65 |
| Other conditions | |
| Accuracy timestamp | 100 ms |
| GPS location | Optional: MSSPC-G |
| Device temperature visible online | Yes |
| Device humidity visible online | Yes |
| Dimensions and weight | |
| Dimensions (L x W x H) | |
| Body and microphone | 80x60x360 mm |
| Incl. weather protection | 80x60x480 mm |
| Incl. weather prot. and antenna | 80x60x620 mm |
| Weight | 1500 grams |
| Accessories | |
| <ul style="list-style-type: none"> • Robust transportcase CAS4 for 2 MSSPC meters and accessories • Accupack UP2, for 20 extra days operation • Solarpanel SOL, for continuous measurements • Powersupply CH1 for connection to a lighting mast (IP67) | |

Connects other equipment

The MSSPC can connect to other systems, such as weather stations, intelligent battery packs, air quality stations, other noise monitoring stations and alarms, both wireless and wired. This allows shared facilities such as telecom, data storage and energy.

Reliability

More than 10 years of experience with real-time remote measurements are bundled in the MSSPC. The measurement system is extremely easy to use, robust and remotely fully controllable.



About Munisense

Munisense develops, produces, supplies and manages innovative measurement solutions for businesses and governments. Solutions that give stakeholders direct online insight into noise, water quality, water levels and air quality. The information is online available at any time for visualization, analysis or periodic reports. This way managers and policymakers can measure in real time; remotely, reliable and smarter.

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* Percentile L₍₉₅₎, L₁₀, L_{NN} / Equivalent noise L_{EQ} (1 second - 1 year) / Dose effect noise L_{EA} CEL / L_{ax} (nuisance)