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.

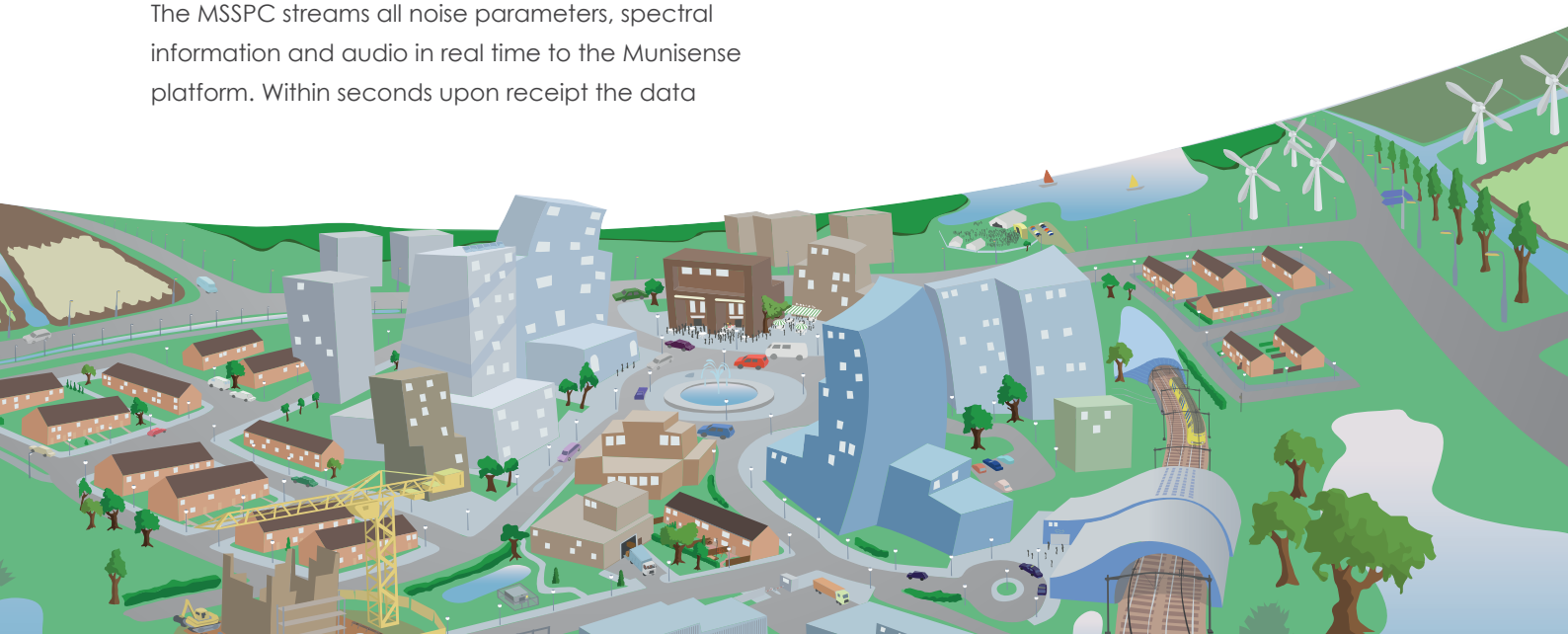
IEC 60651/60804/61672 certified class 1

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	ZDS-DE-16-M-PTB-0058
Measured values	
Supported noise levels (1 sec.)	$LAF_{MIN\ \&\ MAX}$, $LAS_{MIN\ \&\ MAX}$, LA_{EQ}, $LCF_{MIN\ \&\ MAX}$, $LCS_{MIN\ \&\ MAX}$, LC_{EQ}
Advancing L_{EQ}	T= 1, 2, 3, 5, 15, 30, 60 min.
Percentiles (LAS and LAF 125 ms)	L0.5, L01, L02, L05, L10, L25, L50, L75, L90, L95, L99, L99.5
	long term Harmonica Index,
	1 hour , L_{day}, $L_{evening}$, L_{night}, L_{den}
Noise recognition detection (conform ISO 20906)	Reporting start, duration, top LAS, top LA_{EQ}, SEL
Other calculated values *	SEL, 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	½"
Heater	Yes
Microphone cable extendable	upto 10 m
Weather protection	RVS
Storage	
Levels (second values)	6 months
Spectra	6 months
Audio	3 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	135 Wh
Operating time	6 - 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
Integrity monitoring	Temperature and humidity
Dimensions and weight	
Dimensions (L x W x H)	
Body and microphone	80x60x630 mm
Incl. weather protection	80x60x690 mm
Incl. weather prot. and antenna	80x60x750 mm
Weight	1500 grams

Accessories

- Robust transportcase CAS4 for 2 MSSPC meters and accessories
- Accupack UP2, for 20 extra days operation
- Solarpanel SOL, for continuous measurements
- Powersupply CH2 for connection to a lamp post (IP67)
- Weather station: Thies Clima Sensor US4920

* Percentiles can be calculated afterwards as well, with other settings in the INSIGHTNOW platform

v 4.0.2

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.

Recycling e-waste

Of course you can deliver or send us your old Munisense devices. We then ensure that they are included in our recycling process.

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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INSIGHTNOW