



munisense

Noise meters class 1 certified

Measuring noise remotely has never been easier and more reliable. The MSSPC noise measurement system: rapidly deployable, energy efficient, weatherproof, wireless, LTE-M communication.

Optimized for temporary use

MSSPC is optimized for temporary noise measurements such as 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 a lot on 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 meters	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) (mm)	
Body and microphone	80x60x360
Incl. weather protection	80x60x480
Incl. weather prot. and antenna	80x60x620
Weight (grams)	1500
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.

Munisense BV
Fruitweg 36
2321 DH LEIDEN
The Netherlands

munisense
INSIGHTNOW™

info@munisense.com
T +31 (0)71-711 4623
www.munisense.com

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