munisense

MSSP7
Noise monitoring station class 2

The INSIGHTNOW™ measurement system is optimized for remote measurements and disclosing measurement data via the internet.
Our sophisticated family of rapidly deployable, energy efficient, wireless noise monitoring stations (NMS), store their measurement data in real time in the INSIGHTNOW™ cloud platform.

Secure data
Our noise meters comply to IEC 60651/60804/61672 class 2 and are very suitable for temporary measurements. The NMS can be used indoor as well as outdoor and measure all noise parameters,1/3 octave spectral data and support audio streaming. The NMS also store their measurement data as well as the audio internally, so data is never lost.

LTE-M communication
The NMS use the secure IoT-communication LTE-M, which allows measurements where 4G coverage is insufficient.
The NMS is read via the INSIGHTNOW™ platform. Consequently they are small and very energy efficient and the measurement data is fully optimized in the platform, to suit the role and function of the user.

Self-sufficient
The INSIGHTNOW™ meters have an extreme low energy consumption, and operate for **six days** on the rechargeable Li-Ion battery.
An optional battery pack extends operation to **more than 20 days**. Combining the meter with a small solar panel allows continuous measurements.

IEC 60651/60804/61672, class 2

LTE-M IoT communication; reliable and energy saving, 20 days operation

Upto 3 months internal data storage and audio

Realtime and online, self-sufficient, wireless and self-restoring

Data visualisation and analysis in powerful online INSIGHTNOW™ platform

Munisense Class 2 Noise Monitoring Station	MSSP7

Standard

IEC 60651/60804/61672	Class 2

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 noise type
Frequency weightings	dB(A), dB(C)
Time weighting	Fast, Slow, Impulse, Peak
Measurement range total	30 - 140 dB(A)
Measurement ranges (overlap)	4
Resolution	0,01 dB
Accuracy	1,5 dB
Noise floor of the meter	25 dB(A)
Spectra, 1/3 Octa	31,5 Hz - 4 Khz
Audio	OggVorbis quality (11 kHz)

Microphone

Type	Omni
Diameter	½"
Heater	Yes
Weather protection	PC

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	0,5 W
Connecting adapter	12 - 30 V
Supports solar energy (MPPT)	Yes
Battery (Li-Ion)	
Capacity	105 Wh
Operating time	4 - 8 days

Environmental conditions

Temperature	-20 - 60 °C
Temperature charging Li-Ion battery	-20 - 45 °C
Humidity	10 - 99 %
Ingress Protection	IP65

Other conditions

Accuracy timestamp	250 ms
GPS location	Optional
Integrity monitoring	Temperature and humidity

Dimensions and weight

Dimensions (L x W x H)	
Body and microphone	80x60x400 mm
Incl. weather protection	80x60x480 mm
Incl. weather prot. and antenna	80x60x540 mm
Weight	1200 grams

Accessories

- Robust transportcase CAS3 for 2 MSSP7 meters and accessories
- Accupack UP2 for max. 10 extra days operation
- Solar panel SOL for continuous measurements
- Powersupply CH2 for connection to a lighting mast (IP67)
- Robust transport case

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

LTE-M

Class 2 noise meter

Optional:
- Robust transport case CAS3 for max. 2 SP7 meters and accessoires
- Accupack UP1 (+ 20 days)
- Solar panel SOL (continuous measurements)
- Powersupply CH1 for lamp post (IP67)

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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