munisense

Noise meters class 1

The INSIGHTNOW™ measurement system is optimized for remote measurements and disclosing measurement data via the internet.

Our sophisticated family of rapidly deployable, energy efficient, weather-resistant small wireless noise meters, store their measurement data in real time in the INSIGHTNOWTM cloud platform.

Our noise meters comply to IEC 60651/60804/61672 and our Class 1 meters are suitable **for legal use**. The meters can be used indoor as well as outdoor and measures all noise parameters, 1/3 octave spectral data and supports audio streaming. Unlike other noise meters, an INSIGHTNOWTM meter is read via the INSIGHTNOWTM cloud platform. Consequently the meters are small and very energy efficient and the measurement data is fully optimized in this platform to suit the role and function of the user.

Self-sufficient

The INSIGHTNOW™ meters have extreme low energy consumption, and operate ten days on a rechargeable Li-lon battery. An optional battery pack extends operation to more than 40 days. Combining a meter with a small solar panel allows continuous measurements

Covering a geographically large area

The meters are suitable for applications where energy or the internet may not be available. Up to 40 noise meters can be wirelessly connected to a network. This network can span a large area such as an inner city. The meters are linked to the INSIGHTNOWTM platform via a gateway. Optionally the noise meters can be equipped with an internal 4G modem to connect to the platform without the remote gateway.

Small and very energy efficient; measuring more than 10 days

Realtime and online

Self-sufficient, wireless and self-restoring

Readout via INSIGHTNOW™ platform

IEC 60651/60804/61672 Class 1

Suitable for legal use



Munisense noise meters	models SP1 / SP9 / SPA
Standard	, , , ,
IEC 60651/60804/61672	Class 1
PTB admission	ZDS-DE-16-M-PTB-0058
Measured value	
$L_{\rm F}$, $L_{\rm MAX}$, $L_{\rm EQ}$, $L_{\rm TM5}$, $L_{\rm E}$, $L_{\rm PEAK}$	Yes
Spectra	00.4
Octave	SPA
1/3 Octave Audio (OggVorbis)	SPA SP9, SPA
Source direction	3F7, 3FA No
Calculated values *	Yes
Sampling	103
(125 ms - years)	Yes
Time weightings	
Fast, Slow, 62,5 ms	Yes
Frequency weightings	
dB(A), dB(C)	Yes
Measurement range	05 140 15
Total range	25 - 140 dB
Resolution Timestamp (accuracy)	0,01 dB <10 ms
Measurement times	< 10 ms Yes
Microphone type	1/2"
Wile repriete type	Class 1
Weather protection	
Туре	Class 1
Moisture absorbent	Yes
Measurement direction	Vertical
Environmental conditions	
Temperature	-20 - 70 °C
Humidity	20 - 99%
Long-term outdoor measurements	Yes
Energy	
Consumption	120 mW, SP1
	250 mW, SP9/A
Connector adapter	12 - 30V
Supports Solar energy	Yes
Battery (Li-lon)	
Capacity	54WH
Operating time (days)	10
Mahuauk	
Network 7igRee router compatible	Yes
ZigBee router compatible Max. ZigBee network size	40
Max. distance between meters out	
GPRS / HSPA	200111
Integrated	Optional
Via Gateway	Yes
Integrated GPS	Optional
Dimensions and weight	
Dimensions (L x W x H) (mm)	
Body and microphone	80 x 60 x 360
+ Weather protection	80 x 60 x 480
+ Weather protection, antenna	80 x 60 x 620
Weight (grams)	1500
Mounting	
Pole clamp (2080 mm)	Yes
Mast (27 mm)	Optional
	2 2 0

^{*} Percentile L $_{(95)}$, L $_{10}$, L $_{NN}$ / Equivalent noise L $_{EQ}$ (1 second - 1 year) / Dose effect noise L $_{EA}$ CEL / L $_{ax}$ (nuisance)



Optional:

Accupack 4P1 (+ 40 days)



Solar panel TPSO1 (measuring continuously)



About Munisense

Munisense develops, sells and manages highly innovative real-time and online measurement and control solutions for business and government.

Solutions that provide immediate insight in noise, vibrations, water levels, energy use, lighting, water and air quality and that allows effective control ove lighting levels, ventilation, and pump activity.

Our INSIGHTNOW™ meters are connected to our INSIGHTNOW™ cloud platform where the data is stored in real-time for analysis, visualisation and reporting. The information from the platform can be viewed in a range of specific visualisations any time, any where through a web browser or using our phone or tablet apps. Our applications are developed in close cooperation with universities, governments, partners and customers.

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Munisense BV
Fruitweg 36
2321 DH LEIDEN
The Netherlands
info@munisense.com
T +31 (0)71-711 4623