



APPLICATIONS

- Smart Cities sensing.
- Noise monitoring networks.
- Noise monitoring in different situations.

KEY FEATURES

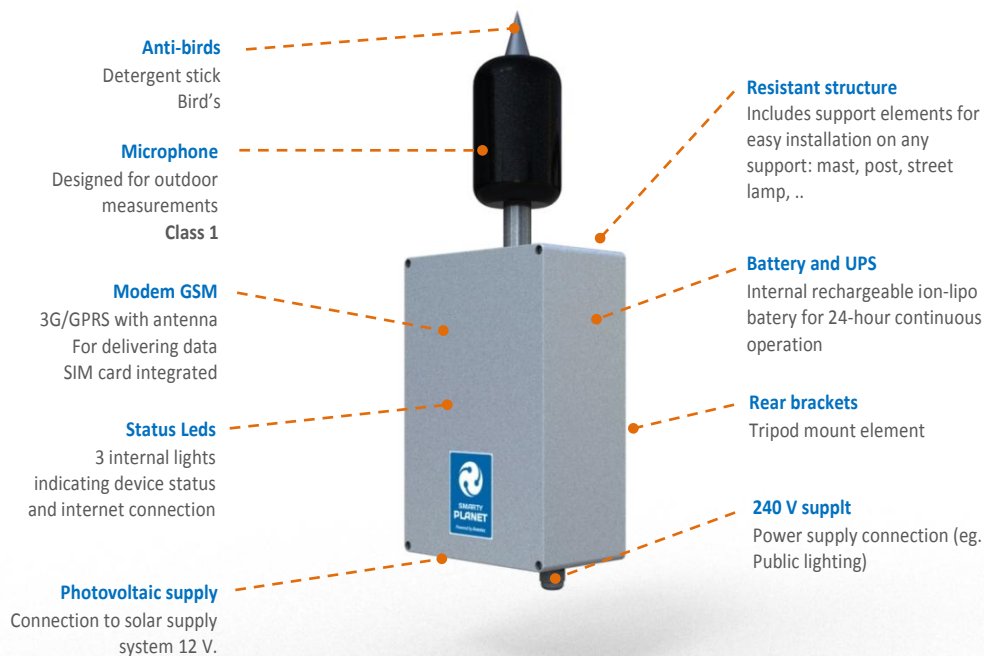
- Class 1 precision.
- Protection against external agents.
- Small dimensions.
- Main power.
- Unlimited network.
- Compatible with Smartyplanet.

ACCESORIES

- Photovoltaic power kit for locations without electricity supply.
- Support tripod for mobile installations.
- Periodic calibration.
- Integrated GSP with sound level meter positioning.

SP120 Environmental noise measurement and delivery

This sound level meter is specifically designed for the remote measurement of ambient noise in streets and outdoor areas. It is the ideal instrument to know online and in real time the acoustic quality of the city without the need for expensive trips. It is delivered fully integrated with the **Smarty Planet web display platform**.



Plug and play Installation



The design of this Station allows his installation under the concept 'to plug and play'. He places of simple form on posts, walls or poles, and his entail with the web of visualization is immediate and automatic.

Better relation Cost - benefit



The new concept of station of sensors allows to have the best technology to monitor and to control his resources to a cost very lower than other existing alternatives on the market.

Sensors Networks



The number of Stations to linking to his network is unlimited, being able to incorporate different models and configurations to form extensive networks that connect the information of his resources to Internet, to give response to the Smart cities of the future

Without complicated infrastructures



With the different models of station it will be able to create networks of sensors adapted to the needs of his sector, without need of complicated infrastructures not costly.

Visualization in web page





The control of the sensors is realized by means of a web application personalized with multiple functionalities as alarms, historical, multiple users, etc.. Accessible from any device connected to Internet.


Multiple sensors



There are multiple the precision sensors that can join. The model of Station selects depending on the type and I number of sensors that he needs.

 Noise sensor	
Detector	Equivalent continuous sound level
Frequency weighting	A
Measured function	Equivalent level with programable integration time from 1s to 60min with frequency weighting
Resolution	0,1 dB
Accuracy	Class 1
Measurement range single rang	35 – 120 dBA
Linearity range at 1kHz	35 – 120 dBA
Acoustic verification	With acoustic calibrator (IEC 60942)
Microphone	½" condenser microphone Polarization: 0V Nominal sensivity: 25 mV/Pa

 Mechanical features	
Dimensions	395 x 120 x 91 mm
Weight	Without battery: 960 g With battery: 1150 g
USB communication	Digital complies with USB rev 2.0 (type B)
Ethernet communication	RJ45
4-20 mA current loop	Analog
3G/GPRS/WiFi Communication	Optional
Transmission protocol	HTTP, HTTPS
IP Address	Static or dynamic (DHCP)
Format	Sentilo JSON, Ultralight 2.0, Otros
Remote control	Remote configuration of the sensor Automatic firmware update (via OTA)
Mains power	100/240 V~ 0,6 A 50/60 Hz (Consumption: 1W)
Urban lightning network	Powering from the urban lightning network with battery support
Ethernet	Uninterrupted power through the Ethernet cable
12 VDC input	Powering from 12 V external batteries and solar panels

 Environmental protection	
Operating temperature	-10 to +50°C
Humidity	25 to 90%

