

# XPT 800 & 801

## Sound Level Meters & Frequency Analyzer



XPT800 & XPT801 SERIES  
WHERE PERFORMANCE MEETS PRECISION





# Explore the Power of Precision

Welcome to the future of sound and vibration analysis with Senseca's Expert Line of **sound level meters and frequency analyzers**.

Engineered to deliver precision, reliability, and adaptability, the **XPT800** and **XPT801** are the ultimate tools for professionals in acoustics and vibration monitoring.

Whether you are managing environmental noise, conducting occupational safety assessments, or enhancing product quality through acoustic testing, these versatile devices offer industry-leading features in a compact and ergonomic design.

With just one device, you can tackle a wide range of tasks, including precise vibration measurements, making it the perfect all-in-one solution for your analysis needs.

## Why choose the XPT80x series?

### Precision You Can Trust

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Deliver reliable results with Class 1 accuracy. The XPT80x series meets international acoustic standards, empowering professionals with confidence in every measurement.

### Ready for Any Task

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Whether you're on a construction site with high sound level or in a quiet laboratory, the XPT80x series excels. Its wide dynamic range and versatility make it ideal for a broad range of applications.

### Future-Proof and Scalable

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Adapt to changing demands with an upgradeable platform. Expand functionality as your projects grow, ensuring your investment remains protected.

### Your Data, Anywhere

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Stay connected with seamless cloud integration. Effortlessly access, share, and analyze your measurements through multiple interfaces and NS Storage.

### Complete Acoustic Insights

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Leverage advanced analytics like event detection, spectrum mask triggers, and real-time statistical tools to gain deeper insights faster.

### Designed for Ease, Built to Last

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The lightweight and ergonomic design guarantees comfortable one-hand use, while its durability ensures reliable operation in tough field conditions.

# Key Features at a Glance

## UNPARALLELED PERFORMANCE

- **Compliance:** IEC 61672:2013 Class 1 certification for precision and reliability.
- **Advanced Display:** 4.3" color touch screen for easy interaction, even in bright sunlight.
- **Extended Battery Life:** Over 24 hours of continuous operation.
- **Upgradeable Design:** Add features as your needs evolve.

## SEAMLESS DATA MANAGEMENT

- **NS Storage Web Application:** View, share, and export data with ease.
- **Cloud Integration:** Automatic synchronization for secure storage.
- **Multiple Interfaces:** USB-C, Wi-Fi, 4G, LAN, and RS232/485 for efficient data transfer.

## ENHANCED ANALYTICS

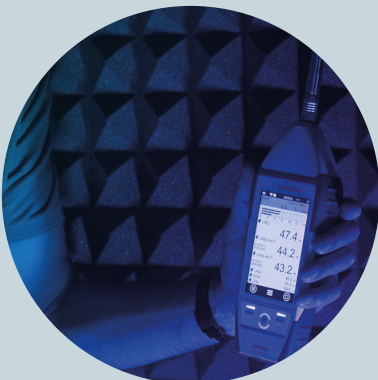
- **Automated event identification** with audio recordings.
- **Advanced trigger logic** with spectrum mask detection.
- **Real-time** statistical analysis and intuitive data visualization.

## USER-FRIENDLY DESIGN

- **Smartphone-like gestures** for intuitive navigation, or buttons control for added convenience.
- **Rugged yet lightweight** construction for field use.
- **Ergonomic, one-hand operation** for convenience.



# Applications in Focus



## ENVIRONMENTAL NOISE MONITORING

- **Urban Planning:** Measure city noise to support better designs and control measures.
- **Construction Sites:** Ensure compliance with noise regulations and minimize impact on communities.
- **Residential Areas:** Evaluate noise to improve living conditions and public health.

## BUILDING ACOUSTICS

- **Sound Insulation:** Assess soundproofing measures for compliance with building codes.
- **Reverberation Time:** Analyze room acoustics for optimal design and performance.
- **STI Calculation:** Measures speech transmission index for accurate intelligibility assessments

## OCCUPATIONAL SAFETY

- **Workplace Noise Exposure:** Monitor and manage worker noise exposure for compliance and safety.
- **Vibration Analysis:** Assess hand-arm and whole-body vibrations based on ISO standards.

## PRODUCT NOISE TESTING

- **Quality Control:** Ensure products meet stringent noise standards.
- **Streamlined Testing:** Real-time data analysis and reporting for efficient workflows.

# Technical Comparison

Performance and features compared

## XPT800



## XPT801



### Sound and Vibration Analyzer

### Sound Analyzer

Dynamic Range	> 125 dB	> 120 dB
Touch Screen	4.3" color	4.3" color
Connectivity	Wi-Fi, 4G, LAN, USB-C	Wi-Fi, 4G, LAN, USB-C
Battery Life	> 24 hours	> 24 hours
Measurement Standards	Class 1 IEC 61672:2013	Class 1 IEC 61672:2013
Microphone Sensitivity	50 mV/Pa	25 mV/Pa
Spectral Analysis 1/1-1/3 oct	option	option
FFT analyzer	option	n/a
Vibration Analysis	option	n/a
Storage	4GB eMMC, uSD, USB Stick	4GB eMMC, uSD
Datalogger step	from 10 ms	from 100 ms
Sliding Averaging	included	n/a
Lden Level	included	n/a
Signal Generator	included	n/a
Heater	included	option
Statistics	included BB+spectr (opt)	included BB
Impulsivity/Tonality Detectors	option	n/a
Reverberation time	option	n/a
Noise Ratings	option	option
Human Vibrations	option	n/a
Automatic Sync (Push)	included	option
Sti/Stipa	option	n/a
Audio recording	option	option

All above features are referred to the instrument itself. Please note that some of them will be available in the coming months. For the details, please refer to the specific datasheet of the device on the website. Further features are available using our desktop applications.

The new XPT800 and XPT801 come with a completely redesigned software that delivers the highest levels of functionality, analytical insight and versatility.

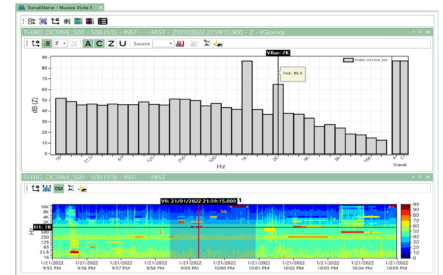
# Software

## Desktop App

### NS-ENS

The NS-ENS module dedicated to the in-depth analysis of environmental noise is designed by acousticians for the needs of acousticians, taking into consideration the potential of new technologies.

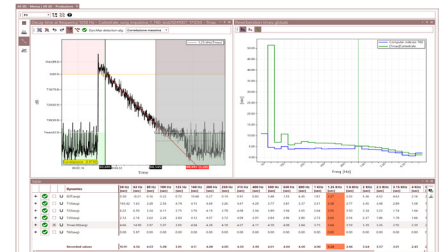
**Application:** Environmental noise  
**Features:** Post-processing of environmental survey and noise monitoring data, customisable functions, advanced noise source analysis and automated reporting  
**Standards:** Directive 2002/49/CE, ISO 1996-2:2017, DM 16 march 1998, UNI 111143-3



### NS-SIS

The NS-Sis module is designed to the sound insulation evaluation of vertical and horizontal partitions and sound proofing materials.

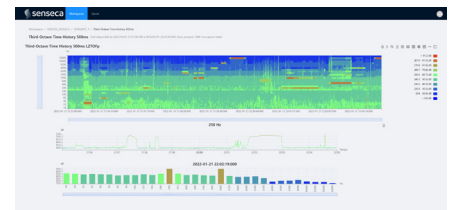
**Application:** Building acoustics  
**Features:** Calculation of main sound insulation descriptors and advanced data analysis. The organized management of the structure of the building under test (rooms and partitions) is designed to increase productivity and speed up data analysis. Flexible test reports.  
**Standards:** ISO 16283, ISO 717



## Web App

### NS-Storage

Web app where you can easily access all your measurement campaigns, directly from your browser. The application enables to sort the different campaigns and can be consulted by other users. It also includes graphics and light analyzing tools.



### NS-Manager

This app enables you to manage your fleet of sound level meters from your desktop. The firmware of sound level meters can be updated remotely. You can also create pre-registered sets of parameters and send it to your device already installed in the field.

### NS-Monitor

The NS Monitor application enables you to control the sound level meters remotely. It can be used for measuring campaigns as well as to adjust parameters.

Serial Number	Type	Name	Last connection	Firmware version	Action	Update firmware	Actions
2000000001	NS1000	MeteoLab (20001 - 0000000001)	2023-01-28 17:02:00	✓	X	●●●●●	
2000000002	NS1000	Teclab	2023-02-03 09:30:04	✓	X	●●●●●	
2000000003	NS1000	Robeco	2023-01-27 12:30:04	✓	X	●●●●●	
2000000004	NS1000	Clavis (sen 1000) 7808 - sen 2000000004	2023-02-03 10:30:04	✓	X	●●●●●	
2000000005	NS1000	Labo (sen 1000)	2023-02-03 09:30:04	✓	X	●●●●●	
2000000006	NS1000	Robeco (sen 1000) 7808 - sen 2000000006	2023-01-15 12:30:04	✓	X	●●●●●	
2000000007	NS1000	Clavis (sen 1000) 7808 - sen 2000000007	2023-02-03 09:30:04	✓	X	●●●●●	
2000000008	NS1000	Clavis (sen 1000) 7808 - sen 2000000008	2023-02-03 09:30:04	✓	X	●●●●●	

# Our Services

## SENSECA CALIBRATION CENTER

An acoustic calibration center plays a crucial role in ensuring the accuracy and reliability of electroacoustic instruments. Our accredited Electroacoustics Laboratory specializes in the calibration of a wide range of devices, including sound level meters, acoustic calibrators (single and multi-frequency), pistonphones, octave band filters, and laboratory and working standard microphones. With decades of experience, advanced measurement equipment, and highly skilled staff, the laboratory guarantees exceptional quality, reliability, and speed in calibration services. Adhering to current international standards, we serve instruments from all major global manufacturers. Regular calibration of acoustic devices is essential for precise measurements, compliance with industry standards, and maintaining confidence in the results, especially in critical applications like environmental noise monitoring and industrial assessments.

The Senseca ISO 17025 Calibration Center is accredited for:

- Photo-radiometry
  - Temperature
  - Humidity
  - Pressure
  - Air speed
  - Acoustic
- Sound level meters, integrating sound level meters
  - Single-frequency sound calibrators
  - Multi-frequency sound calibrators
  - Pistonphones
  - Third octave band filters, octave band filters
  - LS (Laboratory standard) and WS (Working standard) microphone and calibration for comparison in coupler.



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