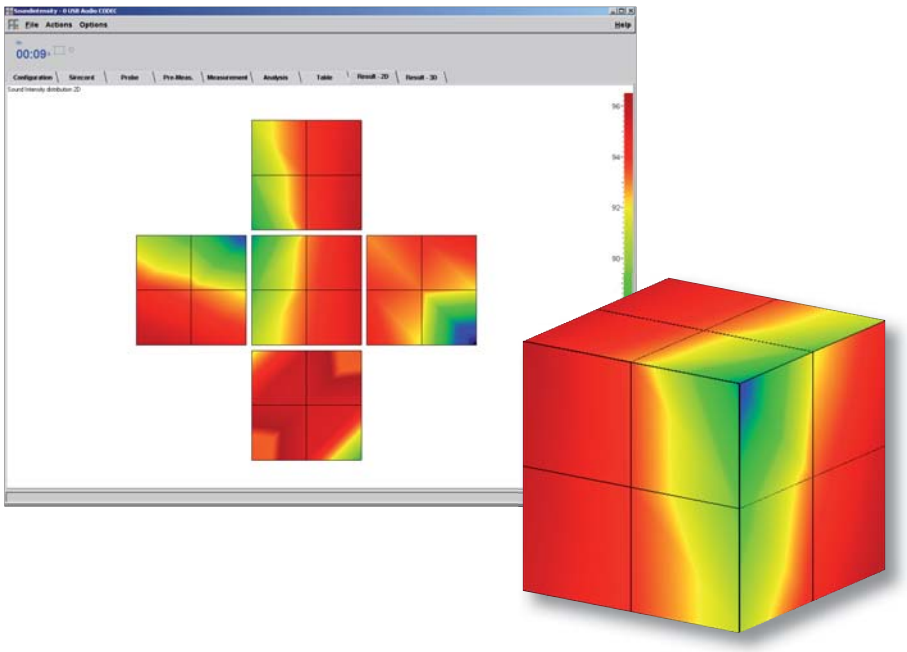
# siIntense

## Integrated measurement of the sound intensity with the classic p-p and the new p-u probe



**siIntense** is a sound power measuring tool in accordance with DIN/ISO standards, with 3D scanning and visualization of the sound intensity distribution of machines and electrical and household appliances.

The sound power of a device can be determined even under difficult circumstances (e.g. sources of interference) with the aid of a sound intensity sensor such as our **SoundFlow** Sensor. The enveloping surface of the measurement object is scanned at discrete locations or continually. In addition, particularly loud positions can be pinpointed - such as gaps in the sound insulation. **siIntense** will guide you through the entire process.

### From measurement to result in one application

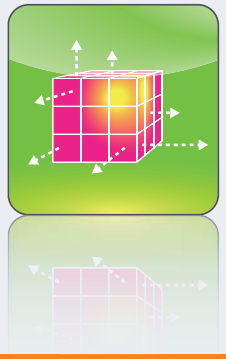
Configuration of the measuring surface, probe selection/calibration, data recording with real-time display, analysis in 2D and 3D charts - **siIntense** offers a structured interface for all tasks.

### Hardware-independent

**siIntense** offers great flexibility in terms of data recording and the sound intensity probe. Extremely compact total solutions are available.

### Easy calibration

**siIntense** allows easy (re)calibration and management of various probes with different microphone distances. In the case of the pressure/velocity sensors (PU probe or **SoundFlow Sensor**), the exact frequency and phase response correction is taken from the calibration data.



## Applications

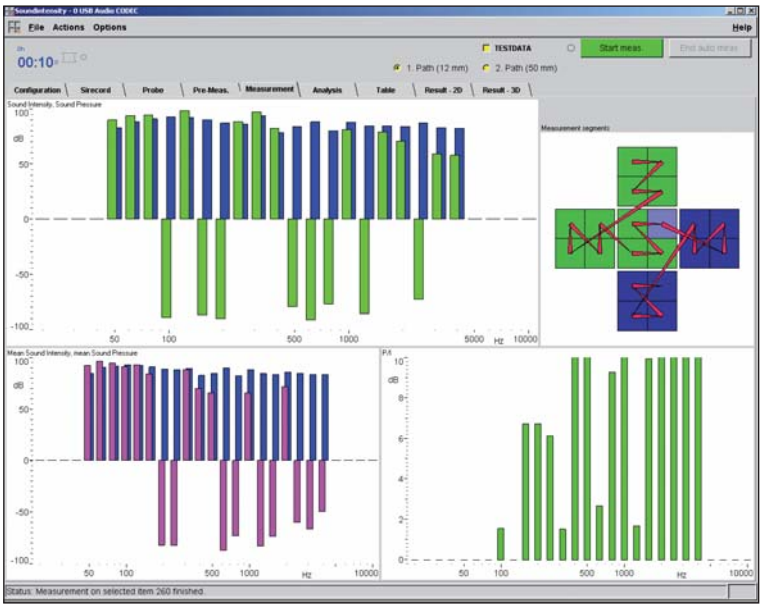
- Sound power determination on stationary machines (e.g. electrical and household appliances)
- Sound power measurement with background noise level
- Sound power determination in non-standardized rooms
- Partial sound source measurement
- Search for sound sources or gaps in sound insulation

## Relevant standards

- DIN EN ISO 9614 – 1 measurement at discrete points
- DIN EN ISO 9614 – 2 scanning method
- Support for all 3 accuracy class

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# siIntense



## All accuracy classes

Class 1, 2 and also Class 3 measurements are supported by **siIntense**.

## Optimum user guidance

The user is guided through the entire measurement process, depending on the selected standard. Both segment control and starting/stopping of the measurement can be performed with only a single button on the probe. The contribution to the total sound power can be immediately evaluated by simply selecting and deselecting sub-surfaces and third octave bands. Partial results can be evaluated during a measurement sequence. The measurement circuit for the probe can be freely selected by the user.

## Clear presentation of results

Depiction of criteria and measurement quality indicators using color coding (depending on the class selected). The results can be presented in 2-dimensional or 3-dimensional form, and as a table.

## Background image and simple positioning of the probe

Optionally, an image can be stored to visualize the intensity distribution in front of the object image.

Presented by:

SOUNDTEC

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## Hardware

- P-u probes for genuine **SoundFlow** sensors or PU probes for real sound pressure and sound particle velocity measurements
- Optimum PP probes: G.R.A.S. 50AI
- All commercial PP probes can be adapted as needed.
- Large selection of suitable front ends, see **si++Voyager** range of products
- Standard PC and Notebook

## Software

- Sound intensity in third octaves (real time)
- All data can be exported as a text file - Excel-compatible
- Resumption of measurement after interruption (including after hardware or operating system failures)
- Simple project management because all configuration, measurement and analytical data are saved in one file
- Management of multiple sensors with 2 microphone distances including phase and residual intensity calibration

## Features

- PP and PU probes can be used
- Data recording can be controlled using the buttons on the sound intensity probe.
- Signals already overloaded in the front end are detected and are automatically not used for evaluation
- Clear feedback regarding compliance with the accuracy criteria according to standard
- Measuring range selection can be modified with a mouse click