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PSC

SAW CONTROL | NOISE
PROTECTION SYSTEM

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PLACID SAW CONTROL PSC





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PLACID SAW CONTROL SYSTEM | PSC

OVERVIEW

It employs Surface Acoustic Wave (SAW) technology to achieve accurate detection, analysis, and suppression of noise. The system is composed of a sensor array that is strategically positioned to pick up and record real-time noise levels within an area of interest. The recorded noise data is then processed by the system's advanced signal processing algorithms and analyzed to identify the specific frequency ranges that require suppression.

Once the frequency ranges are identified, the SAW Control Noise Protection System employs SAW filter technology, which is highly effective at filtering out specific frequency ranges, to suppress the unwanted noise. The filtered signals are then combined with the original sound waves to create a balanced and pleasant noise ambiance. This system's flexibility and effectiveness make it ideal for use in a wide range of settings, such as office buildings, hospitals, schools, and residential areas, providing a comfortable and peaceful sound environment for better health, concentration and productivity. Additionally, this system can be customized and integrated with existing security solutions to create a comprehensive and efficient system.



The PLACID PSC Saw Control Noise Protection System is a technological solution designed to mitigate external noise and protect individuals or facilities from unwanted sound waves.



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FEATURES & BENEFITS

- OPTIMAL PRODUCT GEOMETRY AND SURFACE AREA AT ALL TIMES
- GREATER SAWING PRECISION
- INCREASED LIFE SPAN OF SAW BLADES
- UP TO 30% LOWER BLADE WEAR DUE TO CONSTANT MONITORING OF THE PROCESS
- USE OF 1/3 THINNER SAW BLADES
- LOWER CRITICAL STOCK

The framework is as of now utilized for wear location on roundabout and band saws. It is sold in 15 countries around the world.

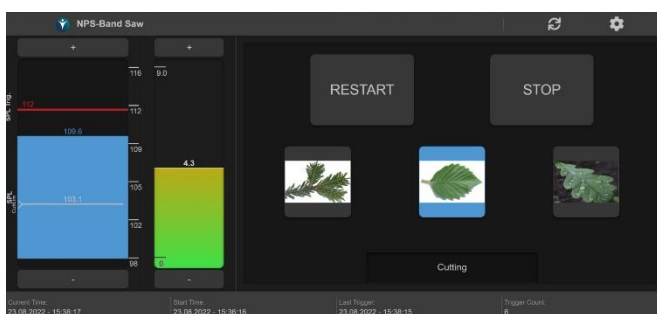
The amount of money saved by finding sawing defects ranges from 30% to 70%! The lines' efficiency has increased by at least 30% as a result of precise monitoring.



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FEATURES & BENEFITS



OPERATOR INTERFACE

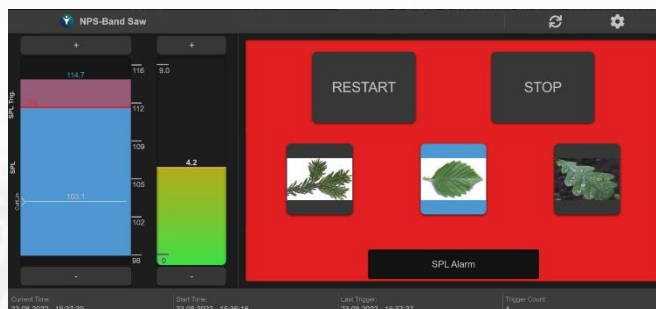
The user interface, which lets the operator choose between different operating programs and keep track of the sawing parameters that are currently being used.

The current operating conditions can be seen in the graph on the left, and the blade's wear can be seen in the right graph. The blade ought to be changed when the upper level is reached.

NPS system management is on the right side of the graphical user interface. We can start or stop the measurement and select from a variety of pre-set operating systems.

ALARM DISPLAY

Assuming an error during the cutting system occurred, the sound tension level (SPL) surpasses the caution esteem, and the framework becomes red to alarm the administrator. Additionally, the NPS system modifies the Relay Output (green connector), which is typically connected to the saw's control system.



ADMINISTRATOR INTERFACE

The operating parameters' settings, statistics, and history can all be seen in the admin panel. A calendar with measurements from the past can be found on the left side of the page. Red dabs show when the irregularity happened. The latter facilitates error detection.



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INDIVIDUAL PARTS



1

START BUTTON

- The system is working
- System calibration
- Alarm

2

STOP BUTTON

- System not measuring
- Saw change required
- Alarm

3

SENSOR INPUT

IEPE 1&2 connector for measuring microphone

4

LCD SCREEN

LCD display for system management

5

GREEN INPUT

The 10-pin connector has:
1x analog input
1x analog output
2x relay ports
3x digital input/output

6

AUDIO 2x USB CONNECTOR

The USB port can be used for mouse, keyboard or special USB button to control the device

7

LAN CONNECTOR

For connecting the system to the local network

8

FAN INLET

Fan inlet slot



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