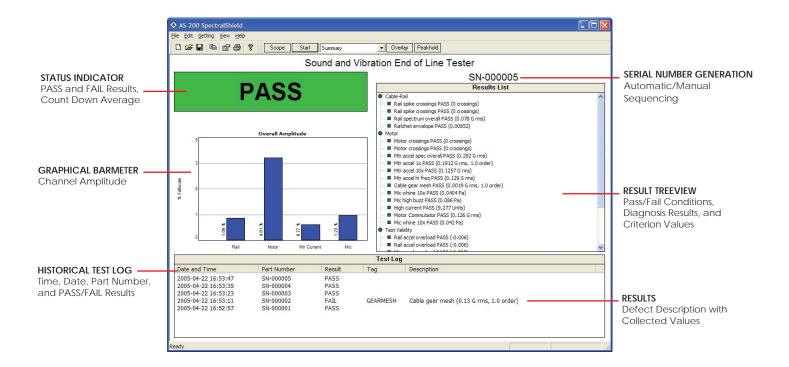
SOUND AND VIBRATION PRODUCTION LINE TEST SYSTEM



SpectralShieldTM is designed to characterize the physical properties of manufactured products. It can reduce warranty costs by identifying defective products. This system can grade products directly on the production line, allowing products to be sold later by quality level. It provides quality metrics documentation, a key factor in improving manufacturing practices. **SpectralShieldTM** is an essential tool that monitors the manufacturing process, increases yields, and tightens product tolerances.

Most sensors that produce an analog signal can be connected to the **SpectralShieldTM** system. Flexible signal conditioning provides programmable gain, anti-alias filtering, overload protection, AC/DC coupling, and IEPE transducer power. The system supports a wide range of sensors including accelerometers, displacement sensors, pressure transducers, proximity probes, thermocouples, flow meters, and strain gauges.

Operators can easily configure tests by defining the acceptable time, frequency, and statistical limits for a product. Once configured, the system can detect transient events (spikes or glitches) and frequency components (unbalance, shaft misalignment, or defective bearings).

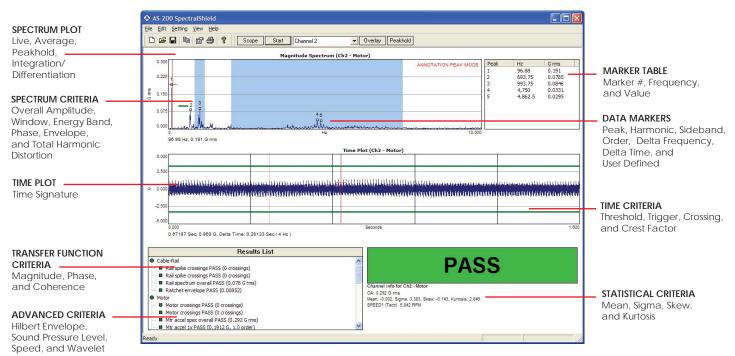
SpectralShieldTM can be configured not only to measure the tested part, but also the test stand and surrounding environment. These other measurements enable the operator to both recognize and modify the external influences that cause part failure.

SpectralShieldTM can run as a stand-alone system or with limited operator interaction. Data acquisition can be triggered by an operator, external relay, industrial computer, or control system. The system will acquire and process the incoming signals, then compare them against good product signatures and indicate if the part passed or failed.



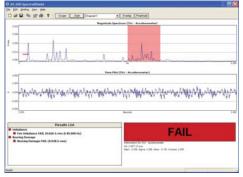
SOUND AND VIBRATION PRODUCTION LINE TEST SYSTEM

CHANNEL DISPLAY



COMPONENT TESTING

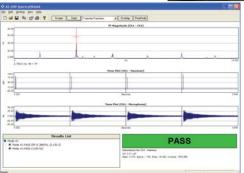




Real-time Acquisition and Analysis with Multiple Test Criteria

IMPACT TESTING





Transfer Function Magnitude, Phase, Real, Imaginary, and Coherence

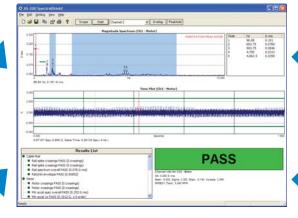


SOUND AND VIBRATION PRODUCTION LINE TEST SYSTEM



SENSOR SIGNALS

Accelerometers, Proximity Probes, Vibrometers, Pressure Transducers, Velocity Probes, and Tachometers



REPORT GENERATION

Test Log, HTML Reports, E-mail, Speadsheets, Time and Spectrum Blocks, and Trending



CONTROL DEVICES

PLC and DCS, Network Sockets, Digital Inputs, RS-232, Ethernet, and Barcode Readers



DATA EXPORT

ASCII, Mathwork's Matlab, WAV, SQL, Vibrant's MEScope, and UFF (Universal File Format)



OUTPUT DEVICES

Electromechanical Relays, PLC and DCS, Ethernet, RS-232, and Printers

Contact Alta Solutions for the latest specifications and ordering information.



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