Surface Intensity Comparator Measurement System

This system is designed for measurement and evaluation of sound at production lines with high noise levels. The system includes surface intensity sensors (combination of microphone and accelerometer) and the Multi-Channel Signal Analyzer SA-02. Because soundproof equipment (such as an anechoic chamber or anechoic box) is not required, an effective line inspection setup can be configured at low cost.

Surface intensity refers to the acoustic intensity in close proximity to a sound emitting surface. Because the value is determined from the sound particle velocity, the measurement is largely unaffected by background noise.

Pass/fail evaluation is based on the frequency spectrum graph, using specified ranges for conforming and nonconforming products.

<table>
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<th>Equipment configuration</th>
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<tr>
<td><strong>Product</strong></td>
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<tr>
<td>4-Channel Signal Analyzer</td>
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<tr>
<td>Computer for SA-02</td>
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<tr>
<td>Surface intensity Evaluation Software</td>
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<td>Surface intensity sensor</td>
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<td>BNC-BNC coaxial cable</td>
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</table>
Measurement result examples

![Evaluation screen]

Setup screen

Application examples

Inspection of motor manufacturing lines and similar

Applicable standards, reference material

None

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