Vibration Calibrator for Vibration Level Meter Inspection and Calibration

- Mechanical excitation method (cam type) designed for low distortion.
- Drive motor operation remains stable even in case of load and power supply voltage fluctuations. Consequently there is almost no change in the calibration level / calibration frequency due to weight differences of accelerometers.
- Supplied accelerometer holder enables horizontal calibration.
Usage example of supplied accelerometer holder

Specifications

- **Oscillator frequency**: 6.3 Hz ± 2 %
- **Acceleration**: 97 dB ± 0.5 dB (0 dB = 10^-5 m/s² (rms))
  - 1 m/s² ± 0.06 m/s² (peak)
- **Acceleration waveform distortion**: Max. 5 % (Frequency range: 1 Hz to 100 Hz)
- **Excitation table**: 130 mm dia.
  - Accelerometer fastening screw diameter: M6 x 10 mm
- **Maximum supported weight**: 2.6 kg
- **Power requirements**: 100 V AC (50 Hz/60 Hz switchable) max. 1 A
- **Dimensions and weight**: 196 (H) x 304 (W) x 189 (D) mm, approx. 21 kg

Instrument calibration and tolerance

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Frequency</th>
<th>Vibration level meter indicated value</th>
<th>Tolerance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vertical vibration</td>
<td>6.3 Hz</td>
<td>97.2 dB</td>
<td>±1 dB</td>
</tr>
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<td>Horizontal vibration</td>
<td>6.3 Hz</td>
<td>90.2 dB</td>
<td>±1 dB</td>
</tr>
<tr>
<td>Vibration acceleration (flat)</td>
<td>6.3 Hz</td>
<td>97.0 dB</td>
<td>±1 dB</td>
</tr>
</tbody>
</table>

Response and tolerance for vertical characteristics / horizontal characteristics

Reference response and tolerance for flat characteristics

Precautions

- Consider the weight of the product (21 kg) and proceed with caution when moving it.
- Depending on the installation location, the condition of the floor may cause errors in the excitation level.
- If possible, the floor at the installation location should be level and made of concrete.
- If the excitation table is subject to shocks or objects exceeding the rated weight are placed on it, waveform distortion may occur.
- In order to maintain continued accuracy, regular inspection and calibration are recommended.

For details, contact the Rion Service Center in Japan.

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