NEW Product

Easily measured even in narrow spaces

Ultraminiature Microphone
MB-2200M10

Features

• **Ultra compact !**
  Easy sound pressure measurement even in limited spaces

• **Super lightweight !**
  Can be fixed with double-sided tape

Overview

This ultra compact, lightweight microphone enables measurement in a narrow space that has been difficult to install so far, without giving influence to the sound field. Analysis device (CCLD) such as FFT Analyzer can be connected directly.

Applications

• Sound pressure measurement inside of a target.
• Measurement of sound pressure distribution by simultaneous multi-point measurement

[Example of setting to a vehicle mirror]
**Specification**

<table>
<thead>
<tr>
<th>Model name</th>
<th>MB-2200M10</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sensitivity</td>
<td>-37.0 ±3.0 dB re. 1V/Pa (14 mV/Pa)</td>
</tr>
<tr>
<td>Frequency range</td>
<td>200 Hz to 16 kHz (±2.5 dB)</td>
</tr>
<tr>
<td>Max. sound pressure level</td>
<td>114 dB (1 kHz, total harmonic distortion: 3%)</td>
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<tr>
<td>Inherent noise level</td>
<td>36 dB (A) or less</td>
</tr>
<tr>
<td>Operating temperature range</td>
<td>-30 to +80°C:2500 mm or less from tip of a sensor part +0 to +50°C:2500 mm or more from tip of a sensor part (to the connector of preamplifier section)</td>
</tr>
<tr>
<td>Operating humidity range</td>
<td>0 to 90% RH (with no condensation)</td>
</tr>
<tr>
<td>Storage temperature range</td>
<td>-10 to +60°C (Sensor and amplifier parts)</td>
</tr>
<tr>
<td>Storage humidity range</td>
<td>0 to 90% RH (with no condensation)</td>
</tr>
<tr>
<td>Weight</td>
<td>Approx. 48 g (total) Approx. 0.3 g (sensor part)</td>
</tr>
<tr>
<td>Power requirement</td>
<td>CCCLD 2.2 to 4.9 mA (Nominal 44.0 mA)</td>
</tr>
<tr>
<td>Conforming standard</td>
<td>CE marking EMC RoHS TEDS IEEE 1451.4:2004 Ver. 1.0 Template: 27 Microphone with built-in preamplifier</td>
</tr>
<tr>
<td>Accessory</td>
<td>Data sheet x 1 Instruction manual (Japanese /English) x1 for each</td>
</tr>
</tbody>
</table>

**Outer dimensions**

- Length: 114 dB (1 kHz, total harmonic distortion: 3%)
- Width: 36 dB (A) or less
- Height: -30 to +80°C:2500 mm or less from tip of a sensor part +0 to +50°C:2500 mm or more from tip of a sensor part (to the connector of preamplifier section)
- Operating humidity range: 0 to 90% RH (with no condensation)
- Storage temperature range: -10 to +60°C (Sensor and amplifier parts)
- Storage humidity range: 0 to 90% RH (with no condensation)
- Weight: Approx. 48 g (total) Approx. 0.3 g (sensor part)
- Power requirement: CCCLD 2.2 to 4.9 mA (Nominal 44.0 mA)
- Conforming standard: CE marking EMC RoHS TEDS IEEE 1451.4:2004 Ver. 1.0 Template: 27 Microphone with built-in preamplifier

**Frequency characteristics**

- Nominal sound pressure level: 94 dB
- Nominal frequency: 1000 Hz

**Related products**

- **MB-0210 Ultraminiature Microphone CAL Adapter**
- **SC-2120A Sound Calibrator Class 2**
  - Simple type sound calibrator for ½-inch microphone. An exclusive adapter (MB-0210) is required for calibration of the ultra compact microphone.
  - Standard: JIS C 1515:2004 Class 2
  - IEC 60942:2003 Class 2
  - Nominal sound pressure level: 94 dB
  - Nominal frequency: 1000 Hz

- **SR-2210 2-channel Sensor Amplifier**
  - Accepts constant-current line drive sensors and connects to analyzers and recording device that would not otherwise be compatible with constant-current sensors.
  - Constant Current Power: Current: 2.4 mA (±20%) Applied voltage: approx 18 V
  - No. of channels: 2
  - Output max. extension: Within 30 m
  - Power supply: Type AA battery cell x 4 AC adapter: PB-7090 (sold separately)
  - Battery life: 20 hours or more *When type AA alkaline battery cell (LR06) used.

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