Random Noise Generator

SF-06

- White and pink noise based on m-sequence pseudo random noise
- M-sequence repeat cycle 12 hours (logical value), with 50 kHz sequence clock
- Nine selectable 1/1 octave band filters with center frequencies from 31.5 Hz to 8 kHz. Multiple adjacent bands can be selected and used together.
- Choice of noise output modes: continuous, automatic burst, manual, external trigger
- Integrated serial interface allows external control from a computer
- Side-mounted connector panel allows use of the unit in an upright position
### Sound source for sound insulation measurement

- **Display:**
  - 3-digit LED indicators: Shows attenuation, burst time, or transfer rate (selectable)

- **Communications:**
  - RS-232C interface, 9-pin D-sub connector
  - Transfer rate: 9.6 k, 19.2 k, 38.4 k bps selectable

- **External I/O:**
  - EXT TRIG IN: Can be connected to external contact circuit to turn oscillation on and off
  - SYNC OUT: At ground level during noise output, high impedance in no-noise state

- **ID setting:**
  - Setting range: 00 to 7F (00 to 127)

- **Power requirements:**
  - 100 V to 250 V AC, 50/60 Hz, approx. 20 VA

- **Ambient conditions:**
  - -10 °C to +50 °C, 30 % to 90 % RH (no condensation)

- **Dimensions and weight:**
  - 168 (H) x 198 (W) x 270 (D) mm, approx. 3 kg

- **Supplied accessories:**
  - 3P power cord x 1
  - 3P-2P adapter x 1
  - Cannon cable (5 m) x 1

### Sound source for interior sound field distribution measurement or reverberation time measurement

- **Display:**
  - Shows attenuation, burst time, or transfer rate (selectable)

- **Communications:**
  - RS-232C interface, 9-pin D-sub connector
  - Transfer rate: 9.6 k, 19.2 k, 38.4 k bps selectable

- **External I/O:**
  - EXT TRIG IN: Can be connected to external contact circuit to turn oscillation on and off
  - SYNC OUT: At ground level during noise output, high impedance in no-noise state

- **ID setting:**
  - Setting range: 00 to 7F (00 to 127)

- **Power requirements:**
  - 100 V to 250 V AC, 50/60 Hz, approx. 20 VA

- **Ambient conditions:**
  - -10 °C to +50 °C, 30 % to 90 % RH (no condensation)

- **Dimensions and weight:**
  - 168 (H) x 198 (W) x 270 (D) mm, approx. 3 kg

- **Supplied accessories:**
  - 3P power cord x 1
  - 3P-2P adapter x 1
  - Cannon cable (5 m) x 1

### Sound source for sound insulation measurement on construction sites

- **Display:**
  - Shows attenuation, burst time, or transfer rate (selectable)

- **Communications:**
  - RS-232C interface, 9-pin D-sub connector
  - Transfer rate: 9.6 k, 19.2 k, 38.4 k bps selectable

- **External I/O:**
  - EXT TRIG IN: Can be connected to external contact circuit to turn oscillation on and off
  - SYNC OUT: At ground level during noise output, high impedance in no-noise state

- **ID setting:**
  - Setting range: 00 to 7F (00 to 127)

- **Power requirements:**
  - 100 V to 250 V AC, 50/60 Hz, approx. 20 VA

- **Ambient conditions:**
  - -10 °C to +50 °C, 30 % to 90 % RH (no condensation)

- **Dimensions and weight:**
  - 168 (H) x 198 (W) x 270 (D) mm, approx. 3 kg

- **Supplied accessories:**
  - 3P power cord x 1
  - 3P-2P adapter x 1
  - Cannon cable (5 m) x 1

* Specifications subject to change without notice.

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**Application Examples**

- **Sound source for sound insulation measurement**
  - Random Noise Generator SF-06
  - Amplifier
  - Speaker
  - Microphone

- **Sound source for interior sound field distribution measurement or reverberation time measurement**
  - Random Noise Generator SF-06
  - Amplifier
  - Speaker
  - Microphone

- **Sound source for sound insulation measurement on construction sites**
  - Measurement of sound insulation between rooms
  - Random Noise Generator SF-06
  - Amplifier
  - Speaker
  - Microphone

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**Specifications**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Output frequency range</strong></td>
<td>White noise, pink noise, Bandwidth 20 Hz to 20 kHz</td>
</tr>
<tr>
<td><strong>Octave bands</strong></td>
<td>31.5 Hz, 63 Hz, 125 Hz, 250 Hz, 500 Hz, 1 kHz, 2 kHz, 4 kHz, 8 kHz</td>
</tr>
<tr>
<td><strong>Filter section</strong></td>
<td>Octave band filters, Standard compliance JIS C 1514:2002 class 1, IEC 61260:1995 class 1</td>
</tr>
<tr>
<td><strong>Output signal level</strong></td>
<td>Approx. 5.6 Vrms (white noise AP value, ATT 0 dB)</td>
</tr>
<tr>
<td><strong>Output level range</strong></td>
<td>0 to -60 dB (variable in 2-dB steps)</td>
</tr>
<tr>
<td><strong>Noise generator</strong></td>
<td>DSP creates m-sequence pseudo random noise</td>
</tr>
<tr>
<td><strong>Octave-band noise</strong></td>
<td>31.5 Hz to 8 kHz, single band or combination of adjacent bands</td>
</tr>
<tr>
<td><strong>Burst function</strong></td>
<td>CONT: Continuous output, BURST: Automatic intermittent signal output, Separate settings for on and off time, range 1 to 9 seconds, MAN: Manual signal output control, External trigger input Enables on/off switching using external contacts</td>
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