

# SC-2500 Sound Calibrator (Class 1)

Sound Calibrator (IEC 60942:2017 Class1)

- **Cost-effective with Class1 performance**
- **A sound pressure of 114 dB**  
(Hard to be affected by the environmental noise in the outdoor field work)
- **Compact and light weight design (AA battery x 2)**

## ■ Overview

In recent years, standards and laws require to perform calibration of a sound level meter by a sound calibrator.

The SC-2500 Sound Calibrator conforms to JIS C 1515 Class1 and IEC60942 Class1. You can use this calibrator for maintenance of the sound level meter and for unit calibration of microphones and frequency analyzers.



## ■ Feature

### 1. Cost-effective with Class1 performance

Conforms to JIS C1515 : 2020 Class1 and IEC 60942 : 2017 Class1.

Adopts feedback control method using semiconductor pressure sensor, allowing to control the fluctuation in sound pressure level due to static pressure. Stable sound pressure is generated even when the operating environment changes.

### 2. High sound pressure of 114 dB

High sound pressure level of 114 dB is generated from the SDC-2500. It is not easily affected by the ambient, even in noisy on-site calibration working environment.

### 3. Compact & light weight design

Easy to use, easy to carry.

Lightweight less than 200g, and palm-sized compact design.



## Application example

Used for unit calibration of microphone, recording device & analyzer



### When used with MI-1531 + MI-3140

Use with the SC-0313 (standard accessory of the MI-3140: 1/4-inch preamplifier).  
(Insert to the SC-2500)



SC-0313 1/4-inch adapter

## Specification

|                         |  |
|-------------------------|--|
| Conforming standard     | JIS C 1515 : 2020 Class 1 *1<br>IEC 60942 : 2017 Class1<br>ANSI S1.40-2006 (R2011) Class1  |
| Method                  | Dynamic speaker  |
| Microphone              | *1/2-inch microphone<br>MI-1211/1233/1234/1235/1271/1281<br>MI-1431/1432/1433<br>*1/4-inch microphone<br>MI-1531 (requires the SC-0313 adapter: standard accessory of the MI-3140)               |
| Sound pressure level    | Nominal sound pressure level: 114 dB<br>(deviation: $\pm 0.25$ dB or less *2)  |
| Total distortion        | 0.5 % or less  |
| Frequency               | Nominal frequency: 1000 Hz<br>(deviation: $\pm 0.5$ % or less *2)  |
| Operating environment   | Ambient temperature: -10 to 50 °C (with no condensation)<br>Static pressure: 65 to 108 kPa<br>Relative humidity: 25 to 90 % (excluding ambient temperature and humidity 39 °C or more dew point) |
| Battery/battery life    | Size AA battery cell (LR6 or HR6) x 2 / more than 4 hours or more continuous operation (when LR6 used)   |
| Outer dimensions/weight | 84(W)×53(H)×76(D) mm (not including protruded section)<br>/200 g or less (not including battery cells)   |
| Accessory               | Instruction manual, size AA battery (LR6) x 2  |

\*1 Nameplate displaying on the sound calibrator:

JIS C 1515:2020 Class 1 (manufactured May 2020 or later) JIS C 1515:2004 Class 1 (manufactured before April 2020)

\*2 Under the reference environment condition: temp. 23 °C, static pressure: 101.325 kPa, humidity: 50 %

● For your safety, please read through the instruction manual before you use.

## Calibration value

Microphone (when used in sound field)

| Model*1             | Diameter (inch) | Correction amount | Input value of calibration |
|---------------------|-----------------|-------------------|----------------------------|
| MI-1211             | 1/2             | -0.2              | 113.8                      |
| MI-1233             | 1/2             | -0.2              | 113.8                      |
| MI-1234             | 1/2             | -0.2              | 113.8                      |
| MI-1235             | 1/2             | -0.1              | 113.9                      |
| MI-1271/<br>1271M12 | 1/2             | -0.2              | 113.8                      |
| MI-1281             | 1/2             | -0.2              | 113.8                      |
| MI-1431             | 1/2             | 0.0               | 114.0                      |
| MI-1432             | 1/2             | 0.0               | 114.0                      |
| MI-1433             | 1/2             | 0.0               | 114.0                      |
| MI-1531*2           | 1/4             | 0.1               | 114.1                      |

Sound level meter (when used in sound field)

| Model*3            | Input value of calibration |
|--------------------|----------------------------|
| LA-1410/1440       | 114.0                      |
| LA-4440            | 113.9                      |
| LA-1411/1441/1441A | 113.9                      |
| LA-4441/4441A      | 113.9                      |
| LA-3260/3560/3570  | 113.9                      |
| LA-7200/7500/7700  | 113.9                      |

\*1, 3: Specified model that SC-2500 can calibrate.

\*2 : When the SC-0313 used

## Calibrator selection

**SC-3120**  
Pistonphone  
(Class1/C)



Frequency : 250 Hz  
Sound pressure level : 114 dB

**SC-2120A**  
Dynamic speaker  
simple type  
(Class2)



Frequency : 1000 Hz  
Sound pressure level : 94 dB

**Note: SC-3120 / SC-2120A conforms to IEC60942:2003/ JIS C1515:2004**

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\*Outer appearance and specifications are subject to change without prior notice.  
URL : <https://www.onosokki.co.jp/English/english.htm>

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