

JIS

JAPANESE INDUSTRIAL STANDARD

Level recorders for recording sound level and/or vibration level

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Level recorders for recording sound level
and/or vibration level

C 1512-1996

1. Scope This Japanese Industrial Standard specifies level recorders having pen response of exponential response type for recording ⁽¹⁾ sound level and vibration level, or either of them.

This Standard also applies to a level recorder which performs recording of exponential response type by using d.c. output (effective value output) of the attached equipment and a sound level meter or vibration level meter (hereafter referred to as "level recorders with attached equipment"). The necessary conditions relating with composition and test of the level recorder with attached equipment defined in this Standard is given in Annex.

Unless especially specified, these said recorders are called level recorders as a generic term.

Note ⁽¹⁾ Recording of sound level and vibration level, or either of them explained here means to record sound level or vibration level on recording paper by using a.c. output signal of the sound level meter of JIS C 1502 or vibration level meter of JIS C 1510 respectively, with the precision at least equivalent to that of the indicated value of the said sound level meter or vibration level meter.

Remarks: The standards cited in this Standard are shown in the following.
JIS C 1502 Sound level meters
JIS C 1510 Vibration level meters

2. Definitions For the purpose of this Standard in addition to conformity with JIS C 1502 and JIS C 1510, the following principal definitions apply :

- (1) recorded value The value of input signal read from the scale of recording paper. Provided that, if the thickness of recorded line is not negligible, the center of the said line is read.
- (2) exponential response type A type of recorder in which the response of recording pen shows a motion of first-order lag as compared with the effective value of input signal ⁽²⁾.

Note ⁽²⁾ The recording pen shall have the same response characteristic as that of the indication of the said sound level meter or vibration level meter.

- (3) trailing edge characteristic The response of recorded value when a constant input signal is suddenly cut off.

3. Ratings

3.1 Working frequency range The frequency range shall include 1 to 8000 Hz. However, a recorder for recording sound level (hereafter referred to as "recorder for sound level") shall include a frequency range of 20 to 8000 Hz, and a recorder for recording vibration level (hereafter referred to as "recorder for vibration level") shall include 1 to 80 Hz.