High Precision Measurement can be easily realized in your palm

ACO's Simple Vibration Meter

LV(Vibration level)

LVa (Vibration acceleration level)

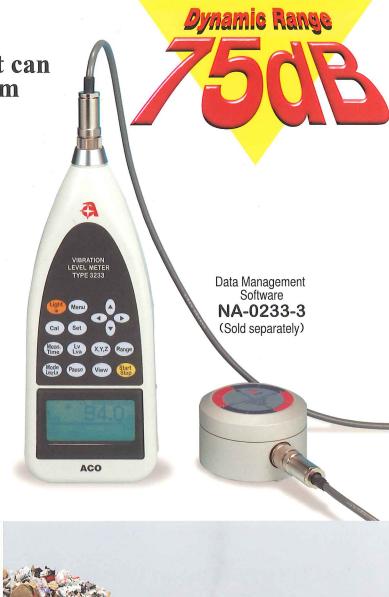
Leg (Power average)

Lmax(Maximum value)

LX(Percentile level)

Vibration Level Meter

TYPE 3233







ACO's state-of-the-art Vibration Meter

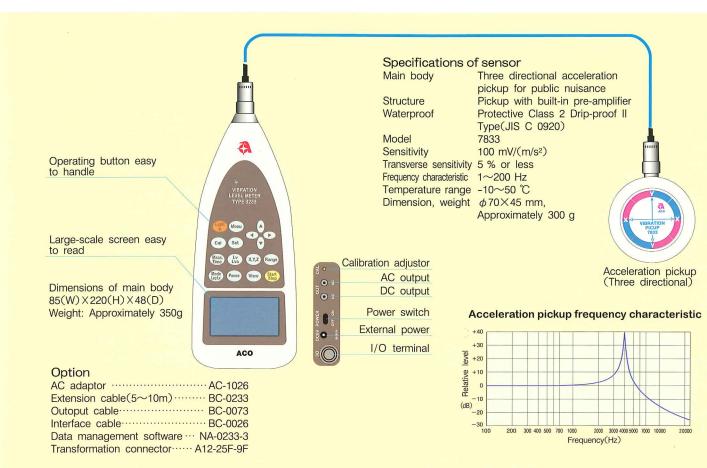
The TYPE 3233 conforms to measurement law JIS C 1510-1995, and exerts mobility at every measuring site because of its smallness and light weight. Combination/Integration with Vibration Pickup TYPE 7833 allows you to measure vibration levels and vibration acceleration levels on the ground, floor, foundation and seat etc., simultaneously in three directions of X, Y and Z.

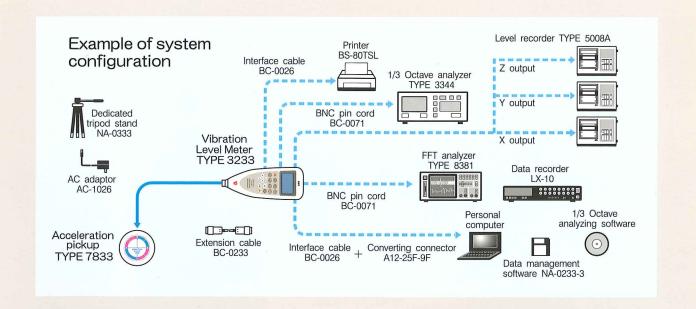
The measuring and computing items are vibration level Lv for which sensory characteristics are taken into account, vibration acceleration level Lva of physical quantity, power average Leq, maximum value Lmax, minimum value Lmin and Percentile level Lx, of which instantaneous values are digitally displayed on the liquid crystal screen.

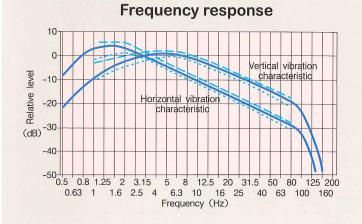
These can be simultaneously recorded on an external level recorder with output terminals independent in three directions. In addition, data processing has been simplified by integrating with peripherals using I/O terminal (RS-232C interface). ACO's Sound Meters, TYPES 6224/6226, having the equivalent specifications, are also on sale as popular comparison meters. Please make use of these in combination with the measuring instruments for environment control.

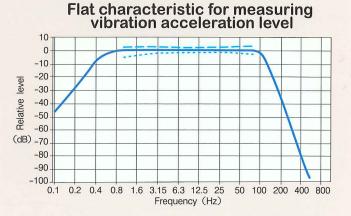
Features

- Easy to handle as a result of its smallness and light weight, high mobility and easy operation. Measurer does not require any special skill. The pickup for measurement offers compatibility.
- Digital values and bar graphs are displayed on a large-scale liquid crystal screen equipped with backlight. Anyone can take a measurement without a reading error, and easily grasp vibration amounts with the bar
- Wide range of linearity 75 dB eliminates switching.
- Maximum and minimum values (Lmax, Lmin), Percentile vibration level (Lx; five values) and power average are computed simultaneously in three directions, and selectively displayed.
- RS-232C interface built-in, data management and processing can be easily carried out by data management software (separately sold).
- A wide range of vibration levels can be easily measured and operability is enhanced by using the tripod stand.









Vibration Level Meter Specifications

Vibration Level Meter Specifications			
Standard applied	Measuring law JIS C 1510-1995 (Japan)	Displayer	Liquid crystal displayer(128 \times 64 dots) with backlight
Measuring function Vibration level Vibration acceleration level Power average Maximum value Minimum value Percentile level Measuring time	Lv	Digital display Bar display Alarm display	Displayed in numerals: Displayed in 4 digits Displaying cycle: 1 second Displaying cycle Approximately: 64 ms Over: Overload, displayed in+10 dB from scale upper limit Under: Excessively faint signal, displayed in -0.6 dB from scale lower limit Remaining battery amount: Displayed in 4 stages Clock: Year, Month, Date, Hour, Minute, Second
Measuring level	30∼120 dB	Output terminal	Independent output in 3 directions respectively
Self-noise	Not larger than 30 dB	AC output	Output voltage:1 Vrms(full scale) Output resistance:600 Ω
Linearity range	75 dB	DC output	Load resistance: Not less than 10 kΩ Output voltage: 2.5 V(full scale)
Level range switching	2 stage switching by 20 dB step $30\sim90$ dB $50\sim110$ dB	2	0.25 V/10 dB Output resistance:50 Ω Load resistance:Not less than 10 k Ω
Frequency range	1∼80 Hz	I/O terminal	Control of vibration meter and data output by computer(direct output to computer) Interface RS-232C(asynchronous)
Frequency correcting circuit	Vertical characteristic, horizontal characteristic, and flat characteristic		
Effective value detecting circuit	Real effective value detecting circuit (digital computing scheme)	Battery	AA batteries four or AC adaptor Battery life: Alkali battery, approximately 20 hours (Manganese battery, approximately
Dynamic characteristic	c 0.63 second	11 hours)Battery life is approximately 1/3 the above when the backlight lights	
Calibration	Electrical calibration by built-in oscillator(sinusoidal wave of 31.5 Hz)	Operating temperature range	e −10~50 °C 30 %~90 %RH(no condensation)
Sampling period	2 ms (Leq) 64 ms (Lmax, Lmin, Lx)	Weight Approximately	350 g including batteries
Computing	Power average(Leq) Computing mean square within measuring time in three directions simultaneously. Percentile level(Lx) Computing L5, L10, L50, L90 and L95 in three directions simultaneously based on cumulative frequency distribution. Maximum, minimum value(Lmax,Lmin) Computing maximum and minimum values within measuring time in three directions simultaneously	Configuration	Main body TYPE 3233 1 Vibration pickup TYPE 7833 (Three directional) 1 Cable(3m) BC-0233 1 BNC pin cord BC-0071 1 AA batteries 4 Housing case 1
Pause function	General pause function		a



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