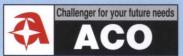
world first

ACO's

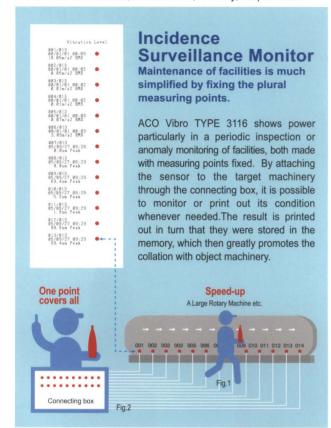
smaller than a cellular phone Vibration meter Compact size Vibration meter Watch, Listen, Measure, Like a noted Doctor of Industrial Machinery!





ACO's Vibration meter

3 mode measurements, Acceleration, Velocity, Displacement



Watch, Listen, Measure, Like a noted Doctor of Industrial Machinery!

Vibration Meter "ACO VIBRO TYPE3116" is super mini-size like a cellular phone. It offers, just like a "machinery doctor", high precision monitoring of various industrial machinery by using the optional headphone or auscultation stick. It offers a simple way of making medical chart for your machine. The "data hold" function has highly promoted the easy observation of the numerical data. In addition, maintenance or examination of the existing machine, or experiment for a new facility under development, has been greatly promoted by fixing and numbering the measuring points on a large-scale target machinery, or by improving the mobility of the measurement based on the "single point" scheme stated above.

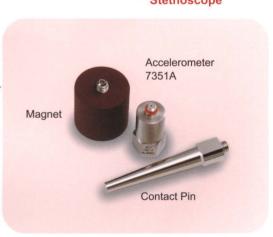
Features

- ●Vibration can be actually heard with your own ear, aiming at the pinpoint spot in question. This is the time of the maintenance of facilities, by watching, hearing and measuring the vibration.
- Compact design, light weight i.e., approx.130g (Including batteries), that demonstrates power on the site of the measurement.
- Single hand operation is possible just like a cellular phone.
- Built in Memory for max.256 data.
- •Built-in serial interface, enabling rapid data processing on your PC.
- Restart the measurement with the last condition set up and stored just before the power-off.
- The output to an exclusive printer is possible.
- Energy-saving design allows continuous measurement longer the 12 hours straight with only 2 Alkaline Cells type LR03.









Accelerometer Specification

3116 / 7812B 3116A / 7351A Main body Voltage input Charge input Charge output type Sensor Voltage output type (built-in pre-amplifier) **TYPE** 7351A Sensitivity 5.0mV/m/s^2 (49.1 mV/G) $\pm 3\%$ at 100 Hz $5.0pC/m/s^2$ (49.1pC/G) $\pm 3\%$ at 100Hz Transverse Sensitivity 5% or less 5% or less Frequency characteristics 1Hz~8kHz 1Hz~10kHz Constant-current power supply DC7V 0.5~4mA Temperature range -10~+60°C -10~+110°C (Curl Cable) -10~+150°C (The cable for high temperature) Size and Weight $24\Phi \times 50$ Approx.60g $13.8\Phi \times 25 \text{ Approx.} 32g$



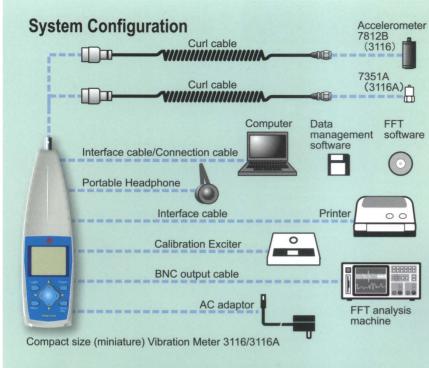
■Structure

- 1) Compact size (miniature) Vibration Meter TYPE 3116
- 2) Accelerometer TYPE 7812B
- 3) Curl cable
- 4) Magnet
- 5) Contact Pin
- 6) Alkaline Cells type LR03

2

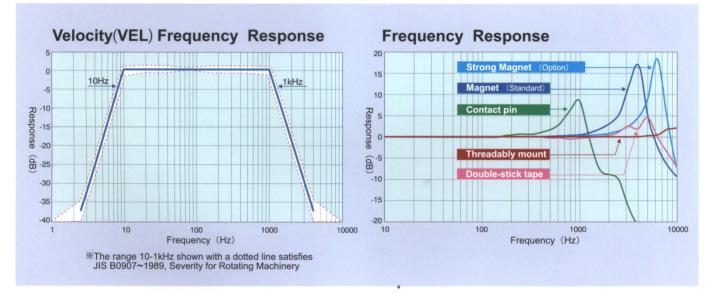
- Carrying case
- 8) Operation Manual





■ Option

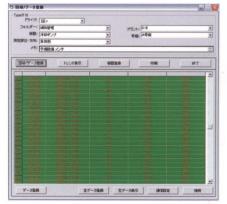
- AC adaptor AC-1046
- Stethoscope (300mm) NA-0134
- BNC output cable BC-0071
- Interface cable (With conversion adaptor) BC-0026
- Printer (a roll of paper included) BS-80TSL
- Data management software NA-0116
- Portable Headphone ATH-FC5 BK (by Audio-technica)
- A plug adapter for headphone PC-260MS (by SONY)
- A high density type Magnet PV-5050
- Stud SS-22M



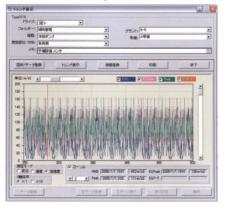
Option Data management software NA-0116

It is possible to manage the data on your PC by using the data handling software.

- Operating system software: Microsoft Windows 98/Me/2000/XP
- Data sampling and vibration data display for Vibration meter TYPE 3116 through serial data communication
- The data is stored in CSV form, corresponding to data processing of spreadsheet software



An example of list display of an oscillation value

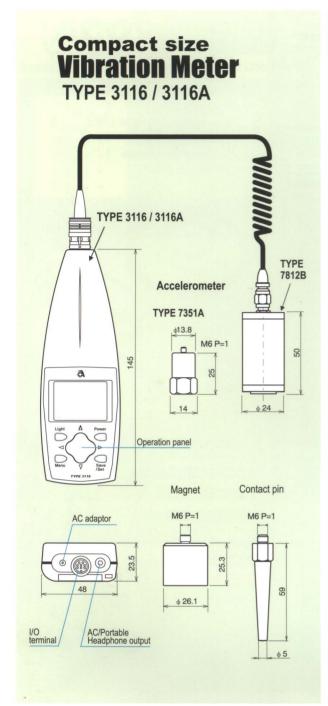


An example of displayed graph of a vibration data

and :	79-116 3 141		表示の神入の	-	ツールの	データ(ロ)			Adobe PDF(B)	-
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2	1	002/256	2005/1/1	0:06	24	mm/s	PEAK			
3		003/256	2005/1/1			m/s2	PEAK			
4	1	004/256	2005/1/1	018	22	m/s2	PEAK			
5		005/256	2005/1/1			mm/s	PEAK			
6		006/256	2005/1/1			mm/s	PEAK			
7	- 1	007/256	2005/1/1	0.35	54	mm/s	PEAK			
8		008/256	2005/1/1			mm/s	PEAK			
9		009/256	2005/1/1	0:47	12	mm/s	PEAK			
10	1	010/256	2005/1/1	0.52	134	m/s2	PEAK			
11	1	011/256	2005/1/1	0.58	51	m/s2	PEAK			
12	1	012/256	2005/1/1		134	m/s2	PEAK			
13	.1	013/256	2005/1/1			m/s2	PEAK			
14	1	014/256	2005/1/1	1:15	164	m/s2	PEAK			
15	- 1	015/256	2005/1/1	1.21	22	m/s2	PEAK			
16		016/256	2005/1/1	1:27		m/s2	PEAK			
17	- 1	017/256	2005/1/1	1:33	111	m/e2	PEAK			
18	1	018/256	2005/1/1	1:38	54	m/s2	PEAK			
19	1	019/256	2005/1/1	1:44	135	m/s2	PEAK			
20		020/256	2005/1/1			m/s2	PEAK			
21	- 1	021/256	2005/1/1	1.56	134	m/s2	PEAK			
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23		023/256	2005/1/1		134	m/s2	PEAK			
24		024/256	2005/1/1			m/s2	PEAK			
25		025/256	2005/1/1			m/s2	PEAK			
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4 4	AM 4	1/	*****	200	10	to the total	Je .	- 00		a

An example of data processing, carried out on spreadsheet software





Specification

Measurement range

: 0.02~200m/s2 RMS Acceleration (ACC) Velocity (VEL) : 0.02~200mm/s RMS Displacement (DISP) : 2~2000 µm EQ p-p

Frequency range

Acceleration (ACC) : 3Hz~10kHz

: 10Hz~1kHz (Compliant with JIS B0907-1989) Velocity (VEL)

Displacement (DISP) : 10Hz~400Hz

Measurement range

: 20, 200m/s2 RMS Acceleration (ACC) Velocity (VEL) : 20, 200mm/s RMS Displacement (DISP) : 200, 2000 µm EQ p-p

Display characteristics

: RMS, EQ Peak, Peak Acceleration (ACC) Velocity (VEL) : RMS, EQ Peak, Peak Displacement (DISP) : RMS, EQ Peak, EQ p-p Peak

EQ Peak=RMS × √2, EQ p-p=EQ Peak × 2

Dynamic characteristics (Time constant) : RMS, EQ Peak, EQ p-p;1s

: Peak; 50msec (rise) / 3s (decay)

Liquid crystal display

Display : LCD with backlight 128 × 64 dot

Hold : Data hold

: 4digets, Display Period; 1s or 2s (selectable) Digital display

(Average of 10 data at 100ms, 1s or 20 data at 100ms, 2s)

Bar - graph :0~100%

Warning (Overload) : [Over] is displayed for full scale : 4-level residual display

Battery Data memory : Max.256, 4kB

Output Terminal : AC on a Menu screen/Portable Headphone

Change selection

AC Output : Output Voltage ; 1Vrms (FS) Load resistance ; more than 100kΩ

Headphone Output

: Vibration sound monitor by exclusive Portable Headphone With volume function

Display precision : ±5%

I/O Terminal

: Data output for PC and Direct output for printer

Interface; RS-232C

Operating Temperature Range

: Temperature ;-10~+50°C

Battery Type and Life

Humidity; 30%~90% (no condensing) : 2 Alkaline Cells type LR03 Approx.12 hours

or AC adapter

: $145 (H) \times 48 (W) \times 23.5 (D)$ Size and Weight

Approx.130g (Include Batteries)

Term for guarantee is twelve months after delivery. Within this term repair is provided for free should a fault occur while the apparatus is being used in the manner prescribed by the manufacturer. Otherwise, a repair fee will be charged.

HOME PAGE URL http://www.aco-japan.co.jp/



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