

## Not One But Two LCD Panels!



Vibration Level Meter VM-53/53A Twin Display

Sub displayshows a wealth of auxiliary information







Vibration Level Meter

# Store 3-axis measurement data Check vibration values on large on sub display



The VM-53/VM-53A consists of the main unit and the 3-axis accelerometer PV-83C. It conforms to the requirements specified by the Weight and Measure Act and the Japanese Industry Standard for vibration level meters (JIS C 1510: 1995). The unit is designed mainly

for measuring ground vibrations in order to evaluate vibration pollution. It can measure vibration levels and display values weighted according to human vibration sensitivity characteristics. The VM-53/VM-53A can also be used to measure minute vibrations in structural objects. Sophisticated auto store and timer functions enable unattended longterm measurement. Data can be stored in the internal memory, and the VM-53A can also use memory cards (CompactFlash™ cards) to hold large amounts of measurement data. The main unit features two backlit LCD panels. The large main display shows the instantaneous value, while the sub display can show a level-time waveform (3-axis or single-axis), bar graph (3-axis), list of numeric values, or other valuable information. This lets the user evaluate vibration phenomena much more accurately than with a conventional device.

connection to a printer or computer and a comparator output are also available. This makes the VM-53/VM-53A suitable for a wide range of measurement system applications. The unit can be powered from IEC R14 (size C) batteries or from an AC adapter (option). A backup function to guard against data loss in case of a power failure is also implemented (when batteries and AC

Separate X, Y, Z signal outputs are provided. An I/O jack for

adapter are used together).

### or other information.

■Continuous recording of 3-axis instantaneous value data on memory card possible (VM-53A).

Twin backlit LCDs. Large main display shows instantaneous value

while sub display shows level-time, bar graph, list,

- (Approx.400 hours using supplied 64 MB card, 3-axis data, 1-second intervals) Store processed values for maximum value, instantaneous level, and power average in internal memory or on memory card.
- ■1/1 and 1/3 octave real-time analyzer card VX-53RT (option) (VM-53A) ■Data management software VM-53PA1 Japanese version (option)
  - Vibration pickup 3-axis accelerometer

Approx. 335 g

#### **PV-83C** Reference sensitivity : 60 mV/m/s2 Waterproofing specifications : JIS C 0920, class 7 (sealed)

Create/display daily

(AUTO 1.AUTO 2data only)

Create/display daily &

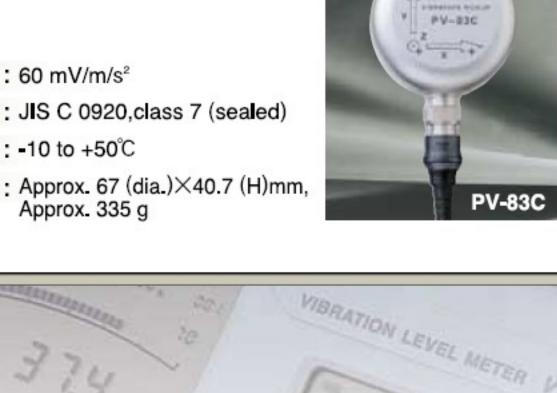
weekly report

Not supported

0

& weekly report

Temperature range for operation: -10 to +50°C Dimensions, weight



# main display while monitoring level waveform Management software

Data read-in method

AUTO 2 data compatible)

Serial communication

Serial communication

Data read-in method

(memory card data)

Not supported

Serial communication

and CF card

Mode

VM-53

internal memory only

VM-53A

internal

memory/CF card

VM-52

VM-52A

SRAM card

(Manual, AUTO 1,

Store data read-in method and display/edit capabilities

Display/edit

(AUTO1,AUTO2data only)

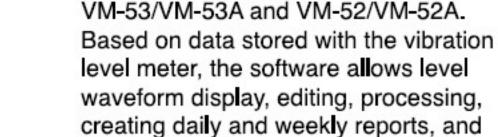
Display/edit

Not supported

\* Memory card data files stored with management software VM-52PB1 can be

Remote measurement is possible with the four models VM-53/VM-53A

in internal memory or on memory card (VM-53A)



Supported operating systems:

printing.

VM-53PA1

Vibration level data management software

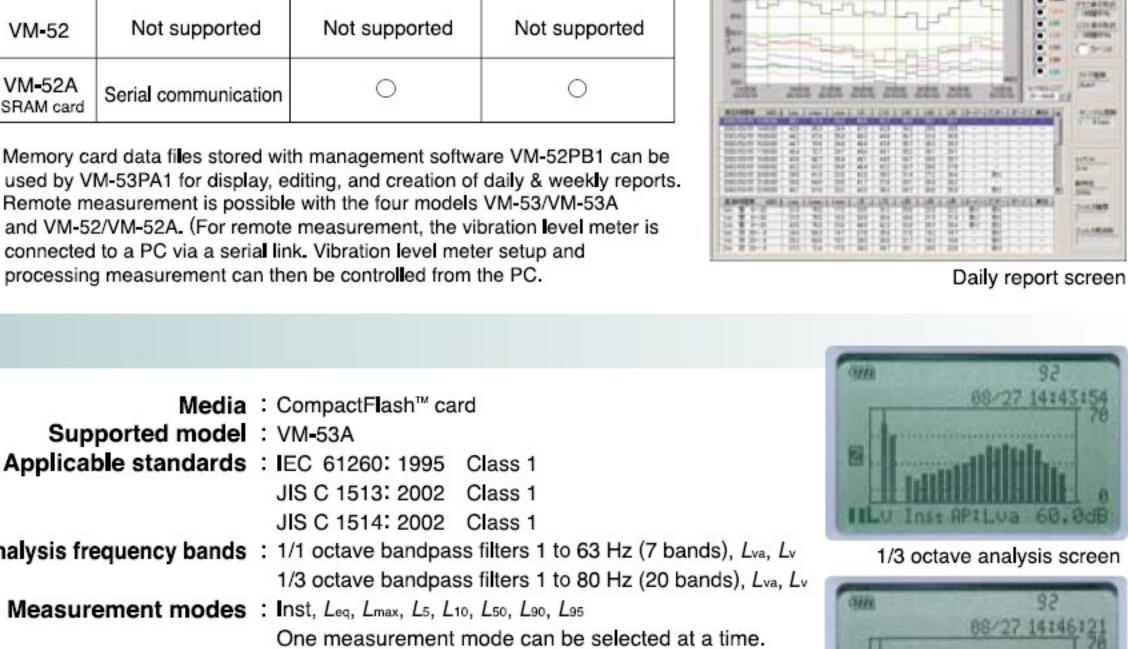
This software supports the models

Windows 98SE/2000/XP\* The VM-53PA1 software runs only under a Japanese operating system and the display language is Japanese only. CompactFlash<sup>™</sup>card ■Manual store data, 1file 25 KB Auto Store 1 Auto Store 2 Number of data Sampling Measurement time 100 ms 1 s 1 set 240 bytes 1.5 MB 0.15 MB 1 h 4500 set | 1.1 MB 12 MB 1.2 MB 8 h

Program card Option 1/1 and 1/3 octave real-time analyzer card VX-5

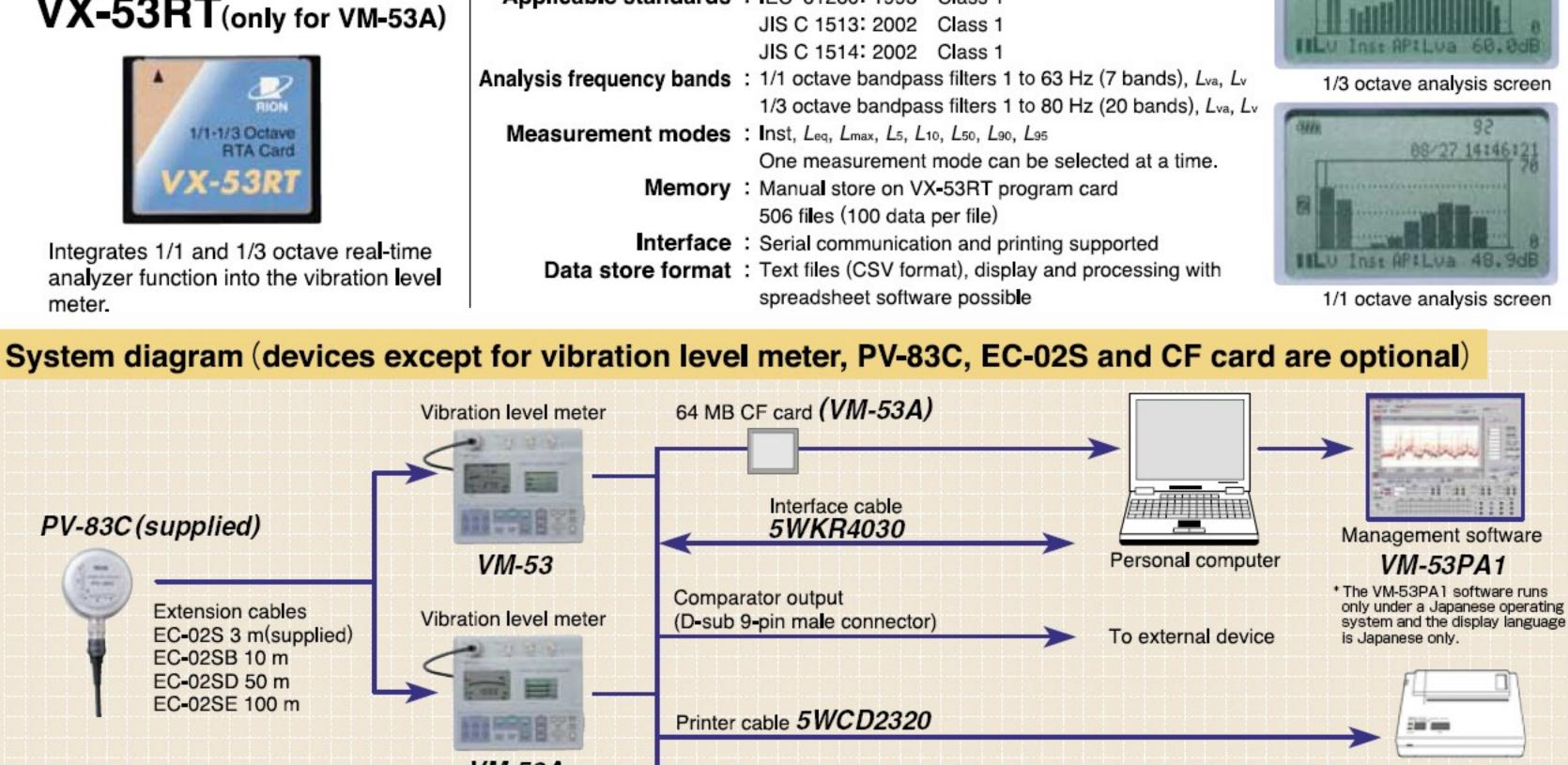
<b>3RT</b> (only for VM-53A)		
•	RION	
	1/1-1/3 Octave RTA Card	
NV	IV EODT	

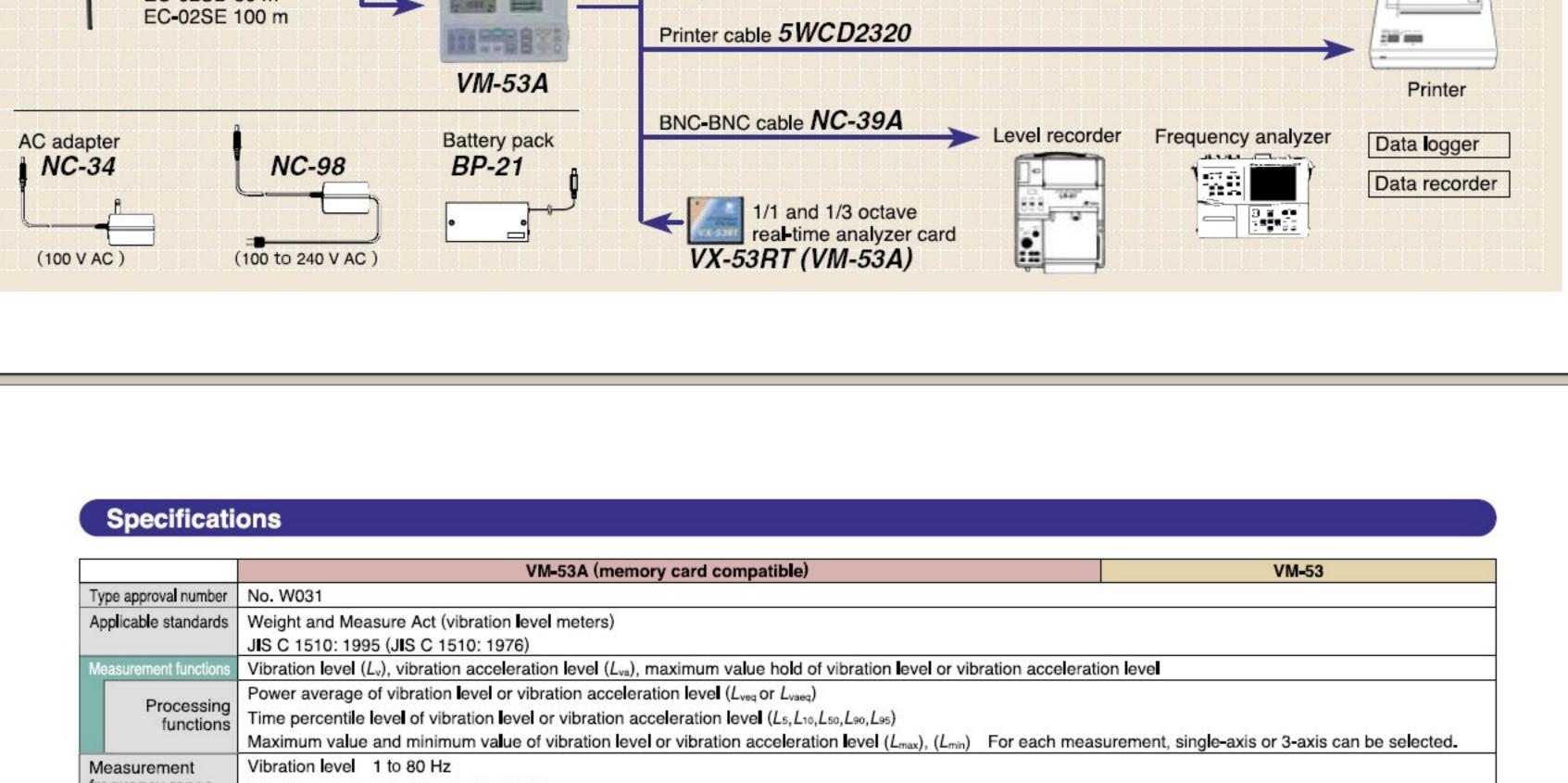
and VM-52/VM-52A. (For remote measurement, the vibration level meter is connected to a PC via a serial link. Vibration level meter setup and processing measurement can then be controlled from the PC. Media : CompactFlash™ card Supported model: VM-53A Applicable standards: IEC 61260: 1995 Class 1

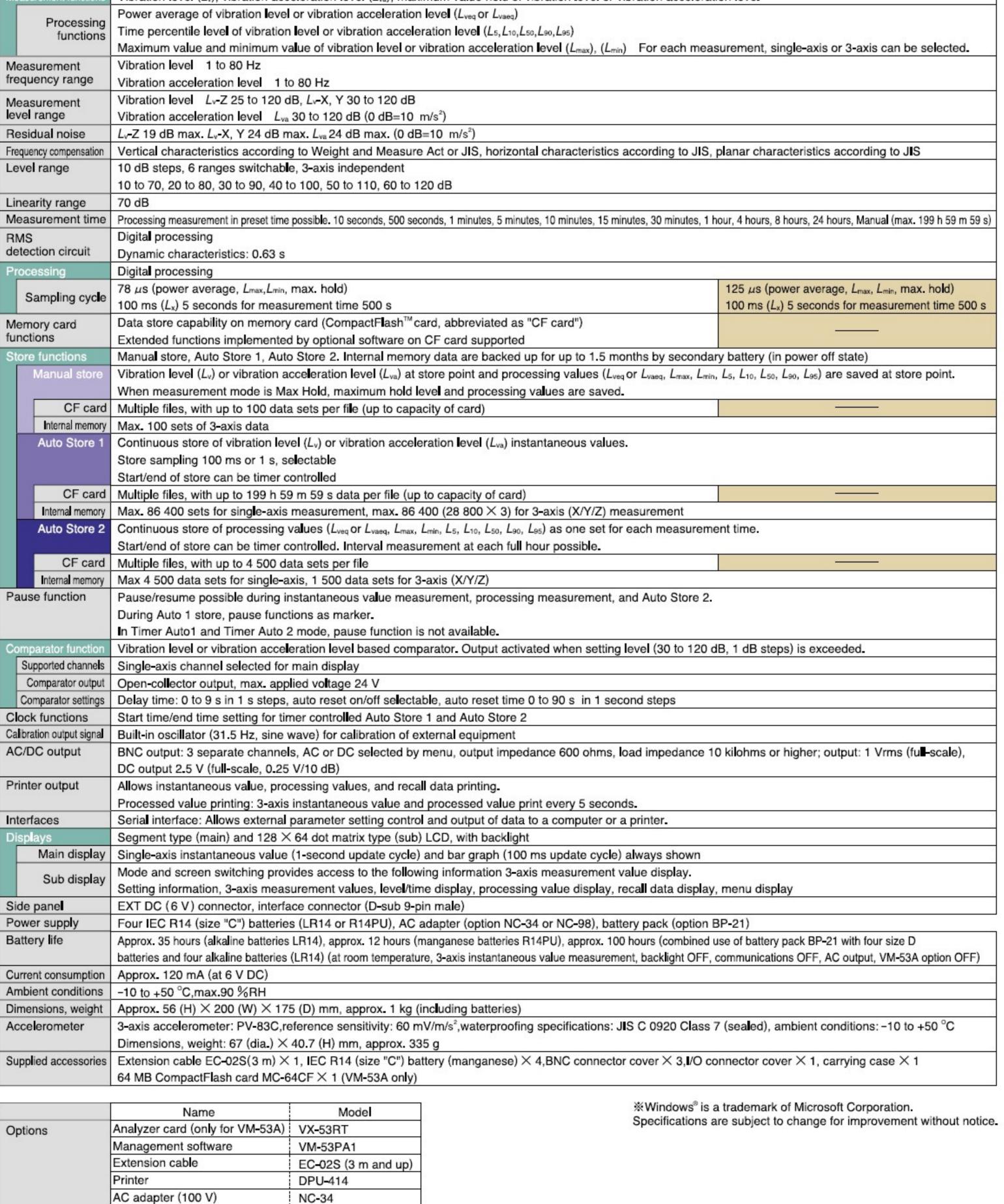


Display / edit screen

of the street







AC adapter (100 to 240 V)

NC-98