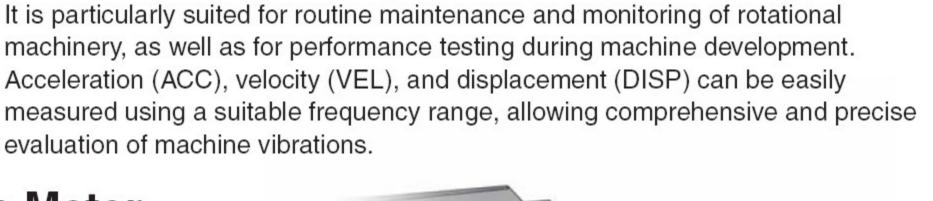




CE



## Easy-to-use vibration meter The vibration meter VM-82 is designed for a wide range of industrial applications.



VM-82

Senser

**Vibration Meter** VIVI-82 ▶ Features ■ Protective sliding cover for preset parameters and less

evaluation of machine vibrations.

and operate the unit with one hand. ■ Backup function instantly reactivates previous settings at next power-on ■ Built-in serial interface enables data processing on a

frequently used setup keys. Side-mounted main controls (HOLD, STORE, POWER switch) make it easy to hold

- computer ■ Low-power design enables up to 30 hours of continuous
- use on one set of alkaline batteries ■ Compact dimensions and light weight: only 320 grams including batteries



## Measurement Accelerometer sensitivity Wide range of possible mode $mV(m/s^2)$ (pc/(m/s<sup>2</sup>)) applications 0.1 to 0.99 ACC (m/s2) 1.0 to 9.9

Acceleration

For Recall or Processing on a Computer

supplied with the unit, the measurement range
of the VM-82 is as indicated by the
section in the table. Selecting a different
accelerometer makes it possible to measure
very low-level or high-level vibrations as well.
Accelerometer seusitivity, measurement
full-scale range and frequency range can be
set up in the relationship shown in the table.
Easy-to-read display
Lasy-10-read display
The large LCD panel displays the bar graph meter
그 그리 얼마 없는 이 없는 이 회사에게 그런 바다 다른

Using the standard accelerometer PV-57A

Store up to 1000 Data —

	V(EL //-)	0.1 to 0.99	100, 1 000, 10 000	011-4-4111-	
	VEL (mm/s)	1.0 to 9.9	10, 100, 1 000	3 Hz to 1 kHz	
	Velocity	10 to 99	1, 10, 100	** 10 Hz to 1 kHz	
		0.1 to 0.99	1, 10, 100, 1 000	500.11	
	DISP(mm)	1.0 to 9.9	0.1, 1, 10, 100	3 Hz to 500 Hz,	
	Displacement	10 to 99	0.01, 0.1, 1, 10	10 Hz to 500 Hz	
		ments as defined by IS0 in Rotational and Recip		ents for Instruments to Measure	
		Data sto	re capability		
eter and numeric ally evaluate any ne frequency range		The internal memory of the VM-82 can hold up to 1000 data, letting the user verify results also after the end of measurement. In recall mode, any of the stored data can be easily redisplayed			

further processed by a computer.

FS10

04-08

Measurement

full-scale range

10, 100, 1 000, 10 000

by specifying the desired address. Stored data can also be

\*Bar graph and battery reminder are not stored.

1, 10, 100, 1 000

0.1, 1, 10, 100

10 to 99

Frequency range

3 Hz to 1 kHz, 3 Hz to 5 kHz,

3 Hz to 20 kHz, 1 Hz to 100 Hz

## reading at the same time, making it easy to visua changes immediately. The display also shows th setting and other useful information. Backlighting can be turned on as desired, allowing use of the unit also in dark locations.

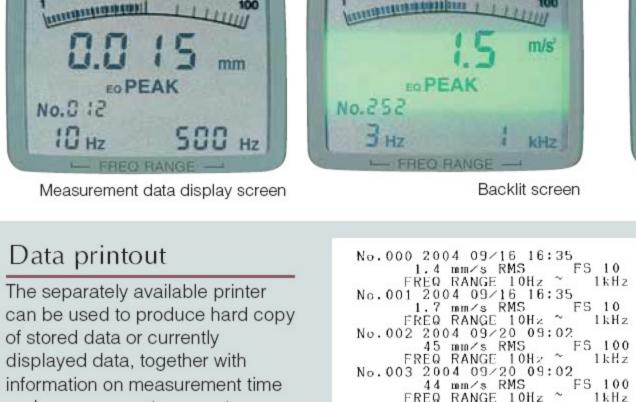
of stored data or currently

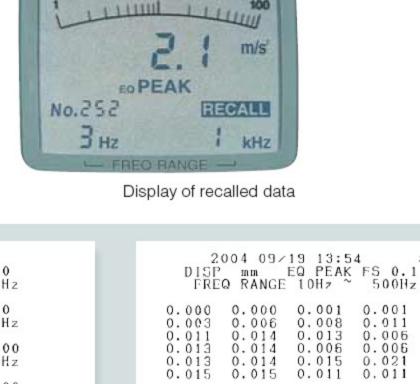
displayed data, together with

Th

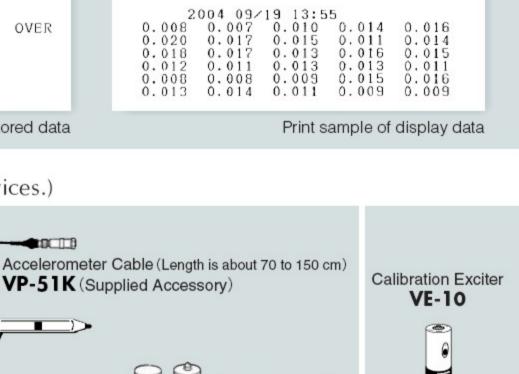
Data memory

4111 04-08 18:18 FS 0 ! FSID HOLD HOLD January Branch





	information on measurement time and measurement parameters.	No.005 2004 09/24 13:07 3.2 m/ss EQ PEAK FS	1kHz OVER 1 1kHz
		Print sample	e of stored data
Sy	stem Configuration (Optional	accessories and Peripheral	devices.)
	Can be extended Extension Cable EC-04 series.	Accelerometer PV-57A	Accelerome VP-51K



0.002 0.012 0.005 0.010 0.019

0.008

0.001

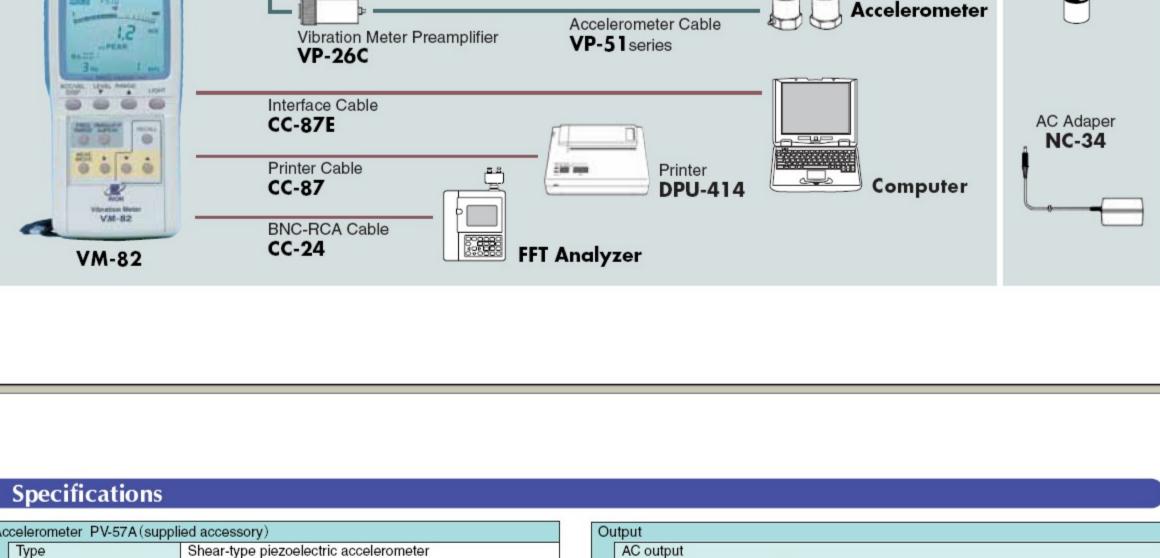
0.006

0.006

0.011

PV-55

(Supplied Accessory)



lerometer PV-57A (sup	nlied accessory)	Output			
Type	Shear-type piezoelectric accelerometer	AC out	tnut		
Туре	(with integrated preamplifier)		nge full-scale	1 V	
Sensitivity	5.1 mV/m/s² ±3 % 80 Hz		put impedance	approx. 600 Ω	
Frequency range	1 Hz to 5 kHz (±10 %)	DC out		арргол. 000 зг	
Dimensions	17(width across hexagonal flat) ×49 mm		nge full-scale	1 V	
Weight	50 g		put impedance	approx. 600 Ω	
Other usable types	PV-55 (direct connection possible)		•	play accuracy (electrical characteristics)	
у,			eleration (ACC)	Range full-scale ±2 % (80 Hz)	
easurement range (with P\	/-57A)		Velocity (VEL) Range full-scale ±3 % (80 Hz)		
Acceleration (ACC)	0.02 to 200 m/s <sup>2</sup> EQ PEAK 1 Hz to 5 kHz		placement (DISP)		
Velocity (VEL)	0.3 to 1 000 mm/s RMS 3 Hz to 1 kHz	Overall accuracy (in combination with PV-57A)			
, , , , , , , , , , , , , , , , , , , ,	0.1 to 1 000 mm/s RMS 10 Hz to 1 kHz	Acceleration (ACC) Range full-scale ±5 % (80 Hz)			
Displacement (DISP)	0.02 to 100 mm	Interfaces			
	0.001 to 100 mm		interface	For data output and remote control of V	/M-82
equency range			interface	For output of data to printer (Option)	02
Acceleration (ACC)	3 Hz to 1 kHz, 3 Hz to 5 kHz,	Ambient c	THE STATE OF THE S	To output of data to printer (option)	
7.000,010,010,010,07	1 Hz to 100 Hz, 3 Hz to 20 kHz		rometer	-20 to +70 °C, <90 % RH	
Velocity (VEL)	10 Hz to 1 kHz, 3 Hz to 1 kHz	Main u		-10 to +50 °C, <90 % RH	
Displacement (DISP)	10 Hz to 500 Hz, 3 Hz to 500 Hz	Power req			
surement full scal range		DC		4 IEC R6 (size "AA") batteries	
For accelerometer PV-57A an	The state of the s	AC		AC adapter (NC-34 series, option)	
accelerometers with sensitivit		A CONTRACTOR OF THE PARTY OF TH	onsumption	Approx. 55 mA (6 V, backlight off)	
Acceleration (ACC)	1, 10, 100, 1 000 m/s <sup>2</sup>		e (continuous us		
Velocity (VEL)	10, 100, 1 000 mm/s		e batteries	Approx. 30 hours	
Displacement (DISP)		Manga	nese batteries	Approx. 14 hours	
dication parameters	EQ PEAK = RMS X√2 EQ p-p = EQ PEAK X 2	Dimension		167.5 (H) × 76 (W) × 35 (D) mm•	
Acceleration	RMS, EQ PEAK			Approx. 320 g (including 4 manganese	batterie
Velocity	RMS, EQ PEAK	Supplied a	accessories	Accelerometer PV-57A	X1
Displacement	RMS, EQ PEAK, EQ p-p			Consists of:	
splay				Accelerometer cable VP-51K	×1
Numerical range	3 digits, 001 to 128			Magnet attachment VP-53S	×1
Traineneal range	Mean value of 20 sampling values on each 100 ms is			Round bar attachment VP-53E	×1
	displayed, updated every 2 seconds			Hex flat attachment VP-53D	×1
Bar graph display	Logarithmic scale, 1 to 100 % of full-scale			M6 screws VP-53A	X2
Indication characteristics				IEC R6 batteries	X4
Indication modes	m/s², mm/s, mm			Soft carrying case	X1
Frequency range	Selected range for each measurement mode shown				5.830
, requestion tailings	at bottom of display				
Memory addresses	000 to 999 (1 000 addresses)	1			
Battery status indication		1			
Real time clock	Year, month, day, hour, minute	1			
Accelerometer sensitivity		1			
Backlight	LED	1			
Overload indication	"OVER" shown on LCD	1			
oto moment	M '	-			

Maximum 1 000 data (000 to 999) can be stored manually. Stored data comprise all display contents except battery status.Internal backup battery preserves stored data.