Tri-axial Groundborne Vibration Meter VM-56





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Simultaneous PPV, VDV, Dominant Frequency & Displacement





Tri-axial Groundborne Vibration Meter VM-56

The VM-56 is a groundborne vibration meter capable of simultaneously calculating the measurement quantities defined by DIN 45669-1, ISO 8041 and other national measurement standards. Like other Rion products, it is characterized by excellent build-quality and exceptional ease of use. It is suitable for a wide range of applications including attended measurements, unattended surveys and live-to-web monitoring.

Applicable standards

DIN 45669-1:2010-09

(Measurement of vibration immission –Part 1: Vibration meters – Requirements and tests) *Measurement range, measurement frequency range only **ISO 8041 : 2005, ISO 8041-1 : 2017** (Human response to vibration

Measuring instrumentation)

High Quality & Easy of Use



Features

Simultaneous measurement of multiple parameters including PPV and VDV.

Simultaneous tri-axial measurement. Compact and lightweight design.



Data stored as CSV files on an SD card.





Part 3 and other frequency-dependent PPV building damage criteria. Flexible product configuration with waveform recording function and

comparator output supports DIN 4150:

User definable PPV vs Frequency



waveform recording function and 1/3 octave band analysis function available as optional programs.

Suitable for use in a live-to-web system (please contact us for further details).

Configuration Example for Remote Continuous Monitoring

Measurement results and data from the VM-56 can be accessed by computers, tablets or smartphones via a network connection for continuous remote monitoring.



Mounting options

DIN Plate VP-54D

PUT

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Meter 56

AL





Option programs -

Waveform Recording Program **VX-56WR**



Allows recording vibration waveforms on SD card as WAV files. The recording process is carried out simultaneously with the standard VM-56 functions.

2 kHz sampling with 24 bit or 16 bit can be selected

Max. recording time (at 16 bit)			
Memory card Sampling frequency	512 MB	2 GB	32 GB
2 kHz	Approx. 6 hours	Approx. 27 hours	Approx. 470 hours

Software / Report Creation

Waveform Analysis software for Groundborne Vibration AS-70GV

Coming soon

Allows use of WAV files recorded with VM-56 + VX-56WR for graph display, level processing, frequency analysis (octave band analysis / FFT analysis), recalculation (PPV, KB, VDV) , and file output.

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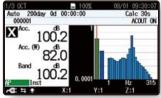
1/3 Octave Band Analysis Program VX-56RT Coming soon



VX-56RT

Enables measurement and logging of 1/3 octave acceleration levels simultaneously with broadband parameters (e.g. PPV, dominant frequency, VDV, MTVV). Can be used concurrently with VX-56WR.

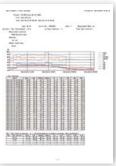
User definable weighting enables compliance with ISO 2631-2:1989/RD1367



1/3 Octave Band Analysis screen

Excel macro for report output (free of charge)

Facilitates the creation of reports from measurement data. Data types: VM-56 auto store data, VX-56RT auto store data *Manual store data are not supported Measurement target: PPV, displacement, acceleration (rms), VDV, MTVV, KB_{Fmax}, value, v_{eff,max.} value



Sample report

Specifications	
Applicable standards	DIN 45669-1: 2010-09 (Frequency, Measurement range compliance), SBR Meten
Applicable standards DIN 45669-1: 2010-09 (Frequency, Measurement range compliance), SBR Meter en beoordelen van trillingen, Deel A: Schade aan gebouwen 2010, Deel B: Hinde	
	voor personen 2013, ISO 8041: 2005, ISO 8041-1: 2017, CE marking, WEEE directive
Measurement functions	Tri-axial simultaneous measurement
Measurement values	
In accordance	Peak particle velocity v max (PPV)
with DIN	Dominant frequency fmg (D.F.)
	Weighted vibration maximum value KB _{Fmax}
	Maximum KB _F value over 30-second KB _{FT}
In accordance	Corrected acceleration effective value Acc.
with ISO	Maximum transient vibration value MTVV
	Vibration dose value VDV
	Crest factor C.F.
In accordance	Maximum weighted vibration value veff, max
with SBR	Maximum veff over 30-second cycle veff, max, 30
Others	Displacement (0-p value) Disp.
Combined PPV for 3 axes PVS	
Waveform recording (Option) Time waveform of acceleration signal a(t)	
1/3 octave band Time-weighted time average, maximum acceleration	
analysis value (Option)	Band maximum OA for 3 axes combined Law
Measurement frequency range	0.5 Hz to 315 Hz
Frequency	For acceleration, velocity, and displacement signals, the following frequency range limits can be selected.
bandwidth limits	Lower limit: 0.5 Hz, 1 Hz, 4 Hz
	Upper limit: 80 Hz, 100 Hz, 250 Hz, Sensor Dependent (LPF OFF)
Measurement range	Measurement frequency setting is 1 to 80 Hz, defining the following range
Measurement range	Vibration velocity: 0.03 to 100 mm/s
for VM-56	Weighted vibration amount: 0.02 to 100 mm/s (Reference 16 Hz)
	Maximum absolute waveform value: 0.05 to 100 mm/s (Reference 16 Hz)
	Vibration acceleration: 0.0003 to 10 m/s ²
	Displacement (0-p): 0.01 to 10 mm (0.5 to 4 Hz)
	Measurement range compliant with SBR-Deel B
	Vibration velocity: 0.02 to 100 mm/s (Frequency bandwidth 1 to 80 Hz)
Instrument noise	
Vibration acceleration	0.0001 m/s ² (Measurement frequency range 1 to 80 Hz)
Vibration velocity	Max. 0.01 m/s ² (Measurement frequency range 1 to 80 Hz)
Frequency correction	No weighting (Common band filter for ISO and DIN / SBR band filter)
	KB (DIN 45669-1 compliant)
	Wb, Wd, Wm characteristics (ISO 8041 compliant)
	Hv (SBR-B compliant)
Measurement range	2 switchable ranges, separate for 3 axes: 0.001 to 10 m/s², 0.0001 to 1 m/s²
Dynamic range	2 switchable ranges, separate for 3 axes: 0.001 to 10 m/s², 0.0001 to 1 m/s² Max. 100 dB
Dynamic range Sampling frequency	2 switchable ranges, separate for 3 axes: 0.001 to 10 m/s², 0.0001 to 1 m/s² Max. 100 dB 2 kHz
Dynamic range Sampling frequency Store modes	2 switchable ranges, separate for 3 axes: 0.001 to 10 m/s ² , 0.0001 to 1 m/s ² Max. 100 dB 2 kHz 3 modes (Manual, Auto, Timer Auto), Data format: CSV
Dynamic range Sampling frequency	2 switchable ranges, separate for 3 axes: 0.001 to 10 m/s ² , 0.0001 to 1 m/s ² Max. 100 dB 2 kHz 3 modes (Manual, Auto, Timer Auto), Data format: CSV Measurement results stored with measurement start time in one memory address
Dynamic range Sampling frequency Store modes	2 switchable ranges, separate for 3 axes: 0.001 to 10 m/s ² , 0.0001 to 1 m/s ² Max. 100 dB 2 kHz 3 modes (Manual, Auto, Timer Auto), Data format: CSV Measurement results stored with measurement start time in one memory address Data stored in internal memory or on SD card (Internal memory: max. 1000 tri-axial
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Dynamic range Sampling frequency Store modes Manual Auto	2 switchable ranges, separate for 3 axes: 0.001 to 10 m/s ² , 0.0001 to 1 m/s ² Max. 100 dB 2 kHz 3 modes (Manual, Auto, Timer Auto), Data format: CSV Measurement results stored with measurement start time in one memory address Data stored in internal memory or on SD card (Internal memory: max. 1000 tri-axial data sets, SD card: dependent on card capacity) Processed value store: PPV, Dominant Frequency (D.F.), KB _{Fmax} , MTVV, VDV, Crest Factor (C.F.), Displacement (Disp.), PVS, Overload and Under Range Flags for each calculation cycle. Continuous storing of various types of processing results for each calculation cycle. Continuous storie: Next Instantaneous store: Acc. rms data stored every 100 ms Processed value store: PPV, Dominant Frequency (D.F.), KB _{Fm} , MTVV, VDV, Crest Factor (C.F.), Displacement (Disp.), PVS, Overload and Under Range Flags for each calculation cycle. Calculation cycle: 1 s to 24 h Processed values are continuously recorded for each store cycle at the set measurement start / stop time. Sleep function (power save mode until measurement start) available Data stored on SD card Store modes: Instantaneous store; Calculation store Instantaneous store: Acc. data stored every 100 ms
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Dynamic range Sampling frequency Store modes Manual Auto Timer Auto	2 switchable ranges, separate for 3 axes: 0.001 to 10 m/s ² , 0.0001 to 1 m/s ² Max. 100 dB 2 kHz 3 modes (Manual, Auto, Timer Auto), Data format: CSV Measurement results stored with measurement start time in one memory address Data stored in internal memory or on SD card (Internal memory: max. 1000 tri-axial data sets, SD card: dependent on card capacity) Processed value store: PPV, Dominant Frequency (D.F.), KB _{Fmax} , MTVV, VDV, Crest Factor (C.F.), Displacement (Disp.), PVS, Overload and Under Range Flags for each calculation cycle. Continuous storing of various types of processing results for each calculation cycle Data stored on SD card Store modes: Instantaneous store, calculation store, level trigger store Instantaneous store: PPV, Dominant Frequency (D.F.), KB _{FT7} , MTVV, VDV, Crest Factor (C.F.), Displacement (Disp.), PVS, Overload and Under Range Flags for each calculation cycle. Continuous storing of various types of processing results for each calculation cycle Data stored on SD card Store modes: Instantaneous store, calculation store, level trigger store Instantaneous store: PPV, Dominant Frequency (D.F.), KB _{FT7} , MTVV, VDV, Crest Factor (C.F.), Displacement (Disp.), PVS, Overload and Under Range Flags for each calculation cycle. Calculation cycle: 1 s to 24 h Processed values are continuously recorded for each store cycle at the set measurement start / stop time. Sleep function (power save mode until measurement start) available Data stored on SD card Store modes: Instantaneous store: Acc. data stored every 100 ms Instantaneous store: Acc. data stored every 100 ms Calculation store: Processing results for each calculation cycle Calculation store: 1 s to 24 h
Dynamic range Sampling frequency Store modes Manual Auto Timer Auto Measurement time Data recall	2 switchable ranges, separate for 3 axes: 0.001 to 10 m/s ² , 0.0001 to 1 m/s ² Max. 100 dB 2 kHz 3 modes (Manual, Auto, Timer Auto), Data format: CSV Measurement results stored with measurement start time in one memory address Data stored in internal memory or on SD card (Internal memory: max. 1000 tri-axial data sets, SD card: dependent on card capacity) Processed value store: PPV, Dominant Frequency (D.F.), KB _{Fmax} , MTVV, VDV, Crest Factor (C.F.), Displacement (Disp.), PVS, Overload and Under Range Flags for each calculation cycle. Continuous storing of various types of processing results for each calculation cycle. Store modes: Instantaneous store: calculation store, level trigger store • Instantaneous store: PPV, Dominant Frequency (D.F.), KB _{FT} , MTVV, VDV, Crest Factor (C.F.), Displacement (Disp.), PVS, Overload and Under Range Flags for each calculation cycle. Continuous storing of various types of processing results for each store, level trigger store • Instantaneous store: Acc. rms data stored every 100 ms • Processed value store: PPV, Dominant Frequency (D.F.), KB _{FT} , MTVV, VDV, Crest Factor (C.F.), Displacement (Disp.), PVS, Overload and Under Range Flags for each calculation cycle. • Calculation cycle: 1 s to 24 h Processed values are continuously recorded for each store cycle at the set measurement start / stop time. Sleep function (power save mode until measurement start) available Data stored on SD card Store modes: Instantaneous store, Calculation store • Instantaneous store: Acc. data stored every 100 ms • Calculation store: Processing results for each calculation cycle • Calculation store: Processing results for each calculation cycle • Calculation cycle: 1 s to 24 h Max. 200 days (Auto store mode only, with 100 ms off)
Dynamic range Sampling frequency Store modes Manual Auto Timer Auto Nleasurement time	2 switchable ranges, separate for 3 axes: 0.001 to 10 m/s ² , 0.0001 to 1 m/s ² Max. 100 dB 2 kHz 3 modes (Manual, Auto, Timer Auto), Data format: CSV Measurement results stored with measurement start time in one memory address Data stored in internal memory or on SD card (Internal memory: max. 1000 tri-axial data sets, SD card: dependent on card capacity) Processed value store: PPV, Dominant Frequency (D.F.), KB _{Fmax} , MTVV, VDV, Crest Factor (C.F.), Displacement (Disp.), PVS, Overload and Under Range Flags for each calculation cycle. Continuous storing of various types of processing results for each calculation cycle. Continuous store: Acc. rms data stored every 100 ms Processed value store: PPV, Dominant Frequency (D.F.), KB _{FTM} , MTVV, VDV, Crest Factor (C.F.), Displacement (Disp.), PVS, Overload and Under Range Flags for each calculation cycle. Cotalculation cycle: 1 s to 24 h Processed values are continuously recorded for each store cycle at the set measurement start / stop time. Sleep function (power save mode until measurement start) available Data stored on SD card Store modes: Instantaneous store; Acc. data stored every 100 ms · Instantaneous store: Acc. data stored every 100 ms · Scalculation cycle: 1 s to 24 h Max. 200 days (Auto store mode only, with 100 ms off) Store data name, store data browse, time browse, waveform yes/no check
Dynamic range Sampling frequency Store modes Manual Auto Timer Auto Measurement time Data recall	2 switchable ranges, separate for 3 axes: 0.001 to 10 m/s ² , 0.0001 to 1 m/s ² Max. 100 dB 2 kHz 3 modes (Manual, Auto, Timer Auto), Data format: CSV Measurement results stored with measurement start time in one memory address Data stored in internal memory or on SD card (Internal memory: max. 1000 tri-axial data sets, SD card: dependent on card capacity) Processed value store: PPV, Dominant Frequency (D.F.), KB _{Fmax} , MTVV, VDV, Crest Factor (C.F.), Displacement (Disp.), PVS, Overload and Under Range Flags for each calculation cycle. Continuous storing of various types of processing results for each calculation cycle at stored on SD card Store modes: Instantaneous store: calculation store, level trigger store Instantaneous store: Acc. rms data stored every 100 ms Processed values are continuously recorded for each store cycle at the set measurement tstr1 / stop time. Sleep function (power save mode until measurement start) available Data stored on SD card Store modes: Instantaneous store; Calculation store Instantaneous store: Acc. data stored every 100 ms Calculation cycle: 1 s to 24 h Mox. 200 days (Auto store mode only, with 100 ms off) Store data name, store data browse, time browse, waveform yes/no check
Dynamic range Sampling frequency Store modes Manual Auto Auto Timer Auto Measurement time Data recall Setting memory Clock function	2 switchable ranges, separate for 3 axes: 0.001 to 10 m/s ² , 0.0001 to 1 m/s ² Max. 100 dB 2 kHz 3 modes (Manual, Auto, Timer Auto), Data format: CSV Measurement results stored with measurement start time in one memory address Data stored in internal memory or on SD card (Internal memory: max. 1000 tri-axial data sets, SD card: dependent on card capacity) Processed value store: PPV, Dominant Frequency (D.F.), KB _{rman} , MTVV, VDV, Crest Factor (C.F.), Displacement (Disp.), PVS, Overload and Under Range Flags for each calculation cycle. Continuous storing of various types of processing results for each calculation cycle. Continuous storing of various types of processing results for each calculation cycle. Continuous storing of various types of processing results for each calculation cycle. Continuous store: Acc. rms data stored every 100 ms Processed value store: PPV, Dominant Frequercy (D.F.), KB _{rman} , MTVV, VDV, Crest Factor (C.F.), Displacement (Disp.), PVS, Overload and Under Range Flags for each calculation cycle. Calculation cycle: 1 s to 24 h Processed values are continuously recorded for each store cycle at the set measurement start / stop time. Sleep function (power save mode until measurement start) available Data stored on SD card Store modes: Instantaneous store; Calculation store Instantaneous store: Acc. data stored every 100 ms Calculation store: Processing results for each calculation cycle Calculation store: 1 s to 24 h Max. 200 days (Auto store mode only, with 100 ms off) Store data name, store data browse, time browse, waveform yes/no check Up to 5 sets of settings can be stored in internal memory and on SD card, for later recall Startup with settings stored in a file on the SD card possible Year/Month/Day/Hour/Minute/Second, Daily error ±1 s, 10 ppm
Dynamic range Sampling frequency Store modes Manual Auto Timer Auto Measurement time Data recall Setting memory	2 switchable ranges, separate for 3 axes: 0.001 to 10 m/s ² , 0.0001 to 1 m/s ² Max. 100 dB 2 kHz 3 modes (Manual, Auto, Timer Auto), Data format: CSV Measurement results stored with measurement start time in one memory address Data stored in internal memory or on SD card (Internal memory: max. 1000 tri-axial data sets, SD card: dependent on card capacity) Processed value store: PPV, Dominant Frequency (D.F.), KB _{Finar} , MTVV, VDV, Crest Factor (C.F.), Displacement (Disp.), PVS, Overload and Under Range Flags for each calculation cycle. Continuous storing of various types of processing results for each calculation cycle. Continuous storie: Instantaneous store, calculation store, level trigger store instantaneous store: Acc. rms data stored every 100 ms Processed value store: PPV, Dominant Frequency (D.F.), KB _{Finar} , MTVV, VDV, Crest Factor (C.F.), Displacement (Disp.), PVS, Overload and Under Range Flags for each calculation cycle. Calculation cycle: 1 s to 24 h Processed values are continuously recorded for each store cycle at the set measurement start / stop time. Sleep function (power save mode until measurement start) available Data stored on SD card Store modes: Instantaneous store, Calculation store Instantaneous store: Acc. data stored every 100 ms Calculation store: Processing results for each calculation cycle Laclulation cycle: 1 s to 24 h Max. 200 days (Auto store mode only, with 100 ms off) Store data name, store data browse, time browse, waveform yes/no check Up to 5 sets of settings can be stored in internal memory and on SD card, for later recall Startup with settings stored in a file on the SD card possible
Dynamic range Sampling frequency Store modes Manual Auto Auto Timer Auto Measurement time Data recall Setting memory Clock function	2 switchable ranges, separate for 3 axes: 0.001 to 10 m/s ² , 0.0001 to 1 m/s ² Max. 100 dB 2 kHz 3 modes (Manual, Auto, Timer Auto), Data format: CSV Measurement results stored with measurement start time in one memory address Data stored in internal memory or on SD card (Internal memory: max. 1000 tri-axial data sets, SD card: dependent on card capacity) Processed value store: PPV, Dominant Frequency (D.F.), KB _{max} , MTVV, VDV, Crest Factor (C.F.), Displacement (Disp.), PVS, Overload and Under Range Flags for each calculation cycle. Continuous storing of various types of processing results for each calculation cycle. Continuous storing of various types of processing results for each calculation cycle. Continuous store: Acc. rms data stored every 100 ms Processed value store: PPV, Dominant Frequency (D.F.), KB _{FT} , MTVV, VDV, Crest Factor (C.F.), Displacement (Disp.), PVS, Overload and Under Range Flags for each calculation cycle. Calculation cycle: 1 s to 24 h Processed values are continuously recorded for each store cycle at the set measurement start / stop time. Sleep function (power save mode until measurement start) available Data stored on SD card Store modes: Instantaneous store, Calculation store Instantaneous store: Acc. data stored every 100 ms Calculation store: Processing results for each calculation cycle Calculation store: Processing results for each calculation cycle Calculation store: Processing results for each calculation cycle Calculation cycle: 1 s to 24 h Max. 200 days (Auto store mode only, with 100 ms off) Store data name, store data browse, time browse, waveform yes/no check Up to 5 sets of settings can be stored in internal memory and on SD card, for later recall Starup with settings stored in a file on the SD card possible Year/Month/Day/Hour/Minute/Second, Daily error ±1 s, 10 ppm Backlit semi-transparent color TFT LCD, WQVGA resolution (400 x 240 dots)
Dynamic range Sampling frequency Store modes Manual Auto Timer Auto Measurement time Data recall Setting memory Clock function Display	2 switchable ranges, separate for 3 axes: 0.001 to 10 m/s², 0.0001 to 1 m/s² Max. 100 dB 2 kHz 3 modes (Manual, Auto, Timer Auto), Data format: CSV Measurement results stored with measurement start time in one memory address Data stored in internal memory or on SD card (Internal memory: max. 1000 tri-axial data sets, SD card: dependent on card capacity) Processed value store: PPV, Dominant Frequency (D.F.), KB _{Fmax} , MTVV, VDV, Crest Factor (C.F.), Displacement (Disp), PVS, Overload and Under Range Flags for each calculation cycle. Continuous storing of various types of processing results for each calculation cycle. Continuous storing of various types of processing results for each calculation cycle. Instantaneous store: Acc. rms data stored every 100 ms Processed value store: PPV, Dominant Frequency (D.F.), KB _{FT} , MTVV, VDV, Crest Factor (C.F.), Displacement (Disp.), PVS, Overload and Under Range Flags for each calculation cycle. Calculation cycle: 1 s to 24 h Processed values are continuously recorded for each store cycle at the set measurement start / stop time. Sleep function (power save mode until measurement start) available Data stored on SD card Store modes: Instantaneous store, Calculation store Instantaneous store: Acc. data stored every 100 ms Calculation cycle: 1 s to 24 h Max. 200 days (Auto store mode only, with 100 ms off) Store data name, store data browse, time browse, waveform yes/no check Up to 5 sets of settings can be stored in internal memory and on SD card, for later recall Startup with settings stored in a file on the SD card possible Year/Month/Day/Hour/Minute/Second, Daily error ±1 s, 10 ppm Backitt semi-transparent color TFT LCD, WQVGA resolution (400 x 240 dots) Language: English only
Dynamic range Sampling frequency Store modes Manual Auto Timer Auto Timer Auto Display Clock function Display Alarm indication	2 switchable ranges, separate for 3 axes: 0.001 to 10 m/s ² , 0.0001 to 1 m/s ² Max. 100 dB 2 kHz 3 modes (Manual, Auto, Timer Auto), Data format: CSV Measurement results stored with measurement start time in one memory address Data stored in internal memory or on SD card (Internal memory: max. 1000 tri-axial data sets, SD card: dependent on card capacity) Processed value store: PPV, Dominant Frequency (D.F.), KB _{Fmax} , MTVV, VDV, Crest Factor (C.F.), Displacement (Disp.), PVS, Overload and Under Range Flags for each calculation cycle. Continuous storing of various types of processing results for each calculation cycle. Continuous storie instantaneous store; calculation store, level trigger store - Instantaneous store: Acc. rms data stored every 100 ms - Processed value store: PPV, Dominant Frequency (D.F.), KB _{FT} , MTVV, VDV, Crest Factor (C.F.), Displacement (Disp.), PVS, Overload and Under Range Flags for each calculation cycle. - Calculation cycle: 1 s to 24 h Processed values are continuously recorded for each store cycle at the set measurement start / stop time. Sleep function (power save mode until measurement start) available Data stored on SD card Store modes: Instantaneous store; Acc. data stored every 100 ms - Calculation cycle: 1 s to 24 h Max. 200 days (Auto store mode only, with 100 ms off) Store data name, store data browse, time browse, waveform yes/no check Up to 5 sets of settings can be stored in internal memory and on SD card, for later recall Starty with settings stored in a file on the SD card possible Year/Month/Day/Hour/Minute/Second, Daily error ± 1 s, 10 ppm Backlit semi-transparent color TFT LCD, WQVGA resolution (400 x 240 dots) Language: English only
Dynamic range Sampling frequency Store modes Manual Auto Timer Auto Timer Auto Neasurement time Data recall Setting memory Clock function Display Alarm indication Signal output	2 switchable ranges, separate for 3 axes: 0.001 to 10 m/s ² , 0.0001 to 1 m/s ² Max. 100 dB 2 kHz 3 modes (Manual, Auto, Timer Auto), Data format: CSV Measurement results stored with measurement start time in one memory address Data stored in internal memory or on SD card (Internal memory: max. 1000 tri-axial data sets, SD card: dependent on card capacity) Processed value store: PPV, Dominant Frequency (D.F.), KB _{Fmax} , MTVV, VDV, Crest Factor (C.F.), Displacement (Disp.), PVS, Overload and Under Range Flags for each calculation cycle. Continuous storing of various types of processing results for each calculation cycle. Continuous storie: Nex. rms data stored every 100 ms • Instantaneous store: Acc. rms data stored every 100 ms • Processed value store: PPV, Dominant Frequency (D.F.), KB _{Fm} , MTVV, VDV, Crest Factor (C.F.), Displacement (Disp.), PVS, Overload and Under Range Flags for each calculation cycle. Calculation cycle: 1 sto 24 h Processed values are continuously recorded for each store cycle at the set measurement start / stop time. Sleep function (power save mode until measurement start) available Data stored on SD card Store modes: Instantaneous store, Calculation store Instantaneous store: Acc. data stored every 100 ms Calculation store: Processing results for each calculation cycle · Calculation store: Processing results for each calculation cycle · Calculation store: Processing results for each calculation cycle · Calculation cycle: 1 s to 24 h Max. 200 days (Auto store mode only, with 100 ms off) Store data name, store data browse, time browse, waveform yes/no check Up to 5 sets of settings can be stored in internal memory and on SD card, for later recall Startup with settings stored in a file on the SD card possible Year/Month/Day/Hour/Minute/Second, Daily error ±1 s, 10 ppm Backiti semi-transparent color TFT LCD, WQVGA resolution (400 x 240 dots) Language: English only
Dynamic range Sampling frequency Store modes Manual Auto Timer Auto Timer Auto Neasurement time Data recall Setting memory Clock function Display Alarm indication Signal output	2 switchable ranges, separate for 3 axes: 0.001 to 10 m/s ² , 0.0001 to 1 m/s ² Max. 100 dB 2 kHz 3 modes (Manual, Auto, Timer Auto), Data format: CSV Measurement results stored with measurement start time in one memory address Data stored in internal memory or on SD card (Internal memory: max. 1000 tri-axial data sets, SD card: dependent on card capacity) Processed value store: PPV, Dominant Frequency (D.F.), KB _{Fmax} , MTVV, VDV, Crest Factor (C.F.), Displacement (Disp.), PVS, Overload and Under Range Flags for each calculation cycle. Continuous storing of various types of processing results for each calculation cycle bat stored on SD card Store modes: Instantaneous store, calculation store, level trigger store • Instantaneous store: Acc. rms data stored every 100 ms • Processed value store: PPV, Dominant Frequency (D.F.), KB _{Fm} , MTVV, VDV, Crest Factor (C.F.), Displacement (Disp.), PVS, Overload and Under Range Flags for each calculation cycle. • Calculation cycle: 1 s to 24 h Processed values are continuously recorded for each store cycle at the set measurement start / stop time. Sleep function (power save mode until measurement start) available Data stored on SD card Store modes: Instantaneous store, Calculation store • Instantaneous store: Acc. data stored every 100 ms • Calculation store: Processing results for each calculation cycle • Calculation torce: 1 s to 24 h Max. 200 days (Auto store mode only, with 100 ms off) Store data name, store data browse, time browse, waveform yes/no check Up to 5 sets of settings can be stored in internal memory and on SD card, for later recall Startup with settings stored in a file on the SD card possible Year/Month/Day/Hour/Minute/Second, Daily error ±1 s, 10 ppm Backlit semi-transparent color TFT LCD, WQVGA resolution (400 x 240 dots) Language: English only Signal overload indication, signal underload indication 2.5 dia. output jacks, 3 separate channels AC output: 1 Yrms (full-scale)
Dynamic range Sampling frequency Store modes Manual Auto Timer Auto Timer Auto Neasurement time Data recall Setting memory Clock function Display Alarm indication Signal output	2 switchable ranges, separate for 3 axes: 0.001 to 10 m/s ² , 0.0001 to 1 m/s ² Max. 100 dB 2 kHz 3 modes (Manual, Auto, Timer Auto), Data format: CSV Measurement results stored with measurement start time in one memory address Data stored in internal memory or on SD card (Internal memory: max. 1000 tri-axial data sets, SD card: dependent on card capacity) Processed value store: PPV, Dominant Frequency (D.F.), KB _{rinav} , MTVV, VDV, Crest Factor (C.F.), Displacement (Disp.), PVS, Overload and Under Range Flags for each calculation cycle. Continuous storing of various types of processing results for each calculation cycle Data stored on SD card Store modes: Instantaneous store, calculation store, level trigger store • Instantaneous store: Acc. rms data stored every 100 ms • Processed value store: PPV, Dominant Frequency (D.F.), KB _{rr} , MTVV, VDV, Crest Factor (C.F.), Displacement (Disp.), PVS, Overload and Under Range Flags for each calculation cycle. • Calculation cycle: 1 s to 24 h Processed value store: PVV, Dominant Frequency (D.F.), KB _{rr} , MTVV, VDV, Crest Factor (C.F.), Displacement start / stop time. Sleep function (power save mode until measurement start) available Data stored on SD card Store modes: Instantaneous store, Calculation store • Instantaneous store: Acc. data stored every 100 ms • Calculation store: Processing results for each calculation cycle • Calculation store: Processing results for each calculation cycle • Calculation store: 1 s to 24 h Max. 200 days (Auto store mode only, with 100 ms off) Store data name, store data browse, time browse, waveform yes/no check Up to 5 sets of settings can be stored in internal memory and on SD card, for later recall Startup with settings stored in a file on the SD card possible Year/Month/Day/Hour/Minute/Second, Daily error ±1 s, 10 ppm Backlit semi-transparent color TFT LCD, WQVGA resolution (400 x 240 dots) Language: English only Signal overload indication, signal underload indication 2.5 dia. output i Jacks, 3 separate channels AC output: 1 Vrms (ful
Dynamic range Sampling frequency Store modes Manual Auto Auto Timer Auto Measurement time Data recall Setting memory Clock function Display Alarm indication Signal output	2 switchable ranges, separate for 3 axes: 0.001 to 10 m/s ² , 0.0001 to 1 m/s ² Max. 100 dB 2 kHz 3 modes (Manual, Auto, Timer Auto), Data format: CSV Measurement results stored with measurement start time in one memory address Data stored in internal memory or on SD card (Internal memory: max. 1000 tri-axial data sets, SD card: dependent on card capacity) Processed value store: PPV, Dominant Frequency (D.F.), KB _{Fmax} , MTVV, VDV, Crest Factor (C.F.), Displacement (Disp.), PVS, Overload and Under Range Flags for each calculation cycle. Continuous storing of various types of processing results for each calculation cycle. Continuous storing of various types of processing results for each calculation cycle bat stored on SD card Store modes: Instantaneous store; calculation store, level trigger store • Instantaneous store: Acc. rms data stored every 100 ms • Processed value store: PPV, Dominant Frequency (D.F.), KB _{FT} , MTVV, VDV, Crest Factor (C.F.), Displacement (Disp.), PVS, Overload and Under Range Flags for each calculation cycle. • Calculation cycle: 1 s to 24 h Processed values are continuously recorded for each store cycle at the set measurement start / stop time. Sleep function (power save mode until measurement start) available Data stored on SD card Store modes: Instantaneous store, Calculation store • Instantaneous store: Acc. data stored every 100 ms • Calculation cycle: 1 s to 24 h Max. 200 days (Auto store mode only, with 100 ms off) Store data name, store data browse, time browse, waveform yes/no check Up to 5 sets of settings can be stored in internal memory and on SD card, for later recall Startup with settings stored in a file on the SD card possible Year/Month/Day/Hour/Minute/Second, Daily error ±1 s, 10 ppm Backlit semi-transparent color TFT LCD, WQVGA resolution (400 x 240 dots) Language: English only Signal overload indication, signal underload indication 2.5 dia. output jacks, 3 separate channels AC output: 1 Ymms (full-scale) Frequency weighting for instanta

RS-232C communications	Using dedicated cable (I/O terminal)	
Comparator output	Open-collector output (using I/O port)	
	Max. applied voltage: 24 V	
	Max. drive current: 50 mA (with 24 V applied voltage)	
	Monitored Parameter: PPV (broad-band or user-definable PPV vs frequency function)	
Power requirements	IEC R6 [size AA] battery x 8 or external power supply	
Battery life	24 hours or more, constant operation *Battery life will differ depending on settings.	
AC adapter	NC-98D	
External power supply voltage	5 to 7 V (rated voltage 6 V)	
Current consumption	Approx. 90 mA with factory default settings	
Power consumption	Approx. 7 VA on input side (220 V AC side)	
Dust and water proofing	IP54 rating (for main unit)*2	
Ambient conditions for operation	-20 °C to +50 °C, 90 % RH or less (no condensation)	
Dimensions and weight	Approx. 175 mm (H) x 175 mm (W) x 40 mm (D) mm, approx. 780 g (incl. batteries	
SD card	SD / SDHC (max. capacity 32 GB)*1	
LED	Two-color (red/blue) type for operation status indication	
Supplied	Accelerometer PV-83D, Alkaline battery, IEC R6 (size AA) x 8,	
accessories	Case x 1, 512 MB SD card x 1, Calibration Certificate	
Accelerometer	Rated sensitivity: 60 mV/(m/s ²)	
Tri-axial	Frequency range: 0.5 Hz to 315 Hz	
Accelerometer	Usage temperature range: -20 °C to +60 °C (no condensation)	
PV-83D	Waterproofing: IPX7	
(Cable: 1.5 m)	Dimensions and weight: Approx 67 mm (dia.) x 50.5 mm (D), approx. 450 g	

Waveform Recording Program VX-56WR

Recorded signal	Acceleration	Data format	WAV format	Ĺ
Sampling frequency	2 kHz	Frequency correction	None	Ĺ
Bit word length	24 bit, 16 bit	Available channels for recording	3 channels (X, Y, Z)	Ĺ

1/3 Octave Band Analysis Program VX-56RT

Analysis Basis	Acceleration		
Applicable standards	IEC 61260-1 2014 class 1, ISO 2631-2*, RD1367* *With user weighting		
Filters	1 Hz to 315 Hz (26 bands)		
Frequency weighting	Frequency weighting None (band-limiting filter only) (Wb, Wd, Wm, User weighting)		
Store modes	Same store modes as VM-56, same processing values are stored.		
	Processing values listed below are also stored.		
Manual	Time average of 1/3 octave Acc for each calculation cycle, and time-weighted maximum value		
Auto/Timer Auto	Instantaneous store: Time-weighted instantaneous value of 1/3 octave Acc every 100 ms		
	Calculation store: Time average of 1/3 octave Acc for each calculation cycle,		
	and time-weighted maximum value		
Analysis target channels	alysis target channels 3 channels simultaneously (X, Y, Z)		
User Weighting	Enables the user to set amplitude weightings for each third octave band:		
	Frequency range: 1 Hz to 315 Hz		
	Adjustable range: +3.00 dB to -70.00 dB		
	-		

Options

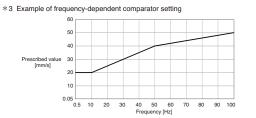
Product	Model
Waveform recording program (supplied on 2 GB SD card)	VX-56WR
1/3 octave band analysis program (supplied on 512 MB SD card)	VX-56RT
Waveform Analysis Software for Groundborne Vibration	AS-70GV
512 MB SD card	MC-51SD1
2 GB SD card	MC-20SD2
32 GB SD card	MC-32SD3
AC adapter	NC-98D
7P Microphone Extension Cable	EC-04 series
BNC to RCA Cable	CC-24
Comparator Cable	CC-42C
RS-232 Serial I/O Cable	CC-42R
USB Cable	-
DIN plate	VP-54D
L-bracket	VP-54L

*1 Use RION fully guaranteed products.

*2 Protection against harmful dust and water splashing from any direction.

Precautions regarding waterproofing

Before use, verify that the rubber side cover and the battery compartment lid are firmly closed. To maintain the water and dust proof rating, internal packing replacement is required every two years (at cost).



IAJapan JCSS RION Co., Ltd. is recogn accreditation scheme or Pacific Laboratory Accre The Quality Assurance S JCSS 0197

RION Co., Ltd. is recognized by the JCSS which uses ISO/IEC 17025 (JIS Q 17025) as an accreditation standard and bases its accreditation scheme on ISO/IEC 17011. JCSS is operated by the accreditation body (IA Japan) which is a signatory to the Asia Pacific Laboratory Accreditation Cooperation (APLAC) as well as the International Laboratory Accreditation Cooperation (ILAC). The Quality Assurance Section of RION Co., Ltd. is an international MRA compliant JCSS operator with the accreditation number JCSS 0197.

* Windows is a trademark of Microsoft Corporation. * Specifications subject to change without notice.

Communication device (virtual COM port): Supports command based communication

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 This product is environment-friendly. It does not include toxic chemicals on our policy.
 This product is certified to an International Protection rating of IP54 (dust protected and resistant to splashing water). This leaflet is printed with environmentally friendly UV ink.