

MULTI MACHINE CHECKER VIVI-70



A New Generation Pencil Type Machine Checker

Hi and Lo Ranges Now Combined in One Unit With Temperature Measurement Capability



Easily check for

- Bearing defects
- Gear damage and wear
- Valve leaks
- Unbalanced rotation
- Parts misalignment
- Oil whipping
- Many other items

Features

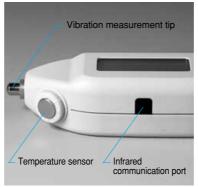
- Memory for up to 100 data sets
- Surface temperature measurement capability
- Infrared data transmission
- One handy unit for all diagnosis functions
- Cordless, safe measurement
- Compact size, easily fits in a breast pocket
- Low-power design conserves battery power



MULTI MACHINE CHECKER VIM-70

Outline

This unit is designed to check for defects and aging symptoms in rotating machinery. It covers both the low frequency range suitable for identifying symptoms such as unbalanced rotation, misalignment, rattle, and acceleration in the high frequency range suitable for diagnosis of bearing problems and aging. A built-in temperature sensor allows concurrent measurement of the machinery surface temperature. Data for up to 100 points can be stored in the internal memory. Using the Windows 95 software application Hyper-Terminal, data can be transferred to a computer via the infrared link. This allows storing the data in files and processing them with spreadsheet software.







Functions



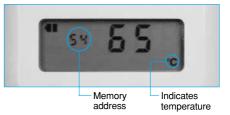
Display screen example for Lo-AVE mode, indicating average vibration velocity values in the low frequency range.

Pressing the HOLD button freezes the value on the display.

Pressing allows storing data in the current memory address.



 Display screen example for Hi-AVE mode, indicating average vibration acceleration values in the high frequency range.



 Display screen example for temperature measurement mode Stored data are recalled and shown on the

Specifications

Vibration pickup

Type: Measurement pressure: Piezoelectric accelerometer (shear-type)

1 kaf Resonance frequency:

Approx. 32 kHz

Approx. 550 Hz (-3 dB point) Approx. 18 pC/G (at 80 Hz) Approx. 55 pC/G (at resonance frequency) Resonance frequency range: Sensitivity:

Temperature sensor

Thermocouple sensor Type: Measurement pressure: Max. 100 g

Maximum allowable temperature: 100°C Response time: Max. 10 s

Measurement modes

Lo-AVE (vibration velocity average) Frequency range: 5

5 - 1000 Hz

0.10 - 1.99, 2.0 - 19.9, 20 - 199 mm/s Display range: Hi-AVE (vibration acceleration average)

Center frequency 32 kHz Frequency range:

Bandwidth approx. 550 Hz 0.01 - 1.99, 2.0 - 19.9 G (relative value) Display range: 0.01 · Hi-PEAK (vibration acceleration peak)

Frequency range: Center frequency 32 kHz, bandwidth approx. 550 Hz 0.1 - 19.9, 20 - 199 G (relative value)

Display range: Temperature

Display range: Display modes 0.1 - 19.9, 20 - 100°C

Average of 10 sampled data, 200 ms cycle Median of 10 sampled data, 200 ms cycle Lo-AVE, Hi-AVE: Hi-PEAK:

Sampled data, 2 s cycle Approx. 2 s

Display cycle: HOLD: Display value is maintained Liquid-crystal display

Display range 001 - 199 Lo-AVE (mm/s), Hi-AVE (G), Hi-PEAK (G), Measurement value Measurement modes:

TEMP (°C)

Memory addresses: Overload indication: 00 - 99 OVER Data hold indication: HOLD

Battery status indication: Backlighting: Two-segment display LED backlight

Manual store of up to 100 data sets (00 - 99). Data memory:

All display items (except battery status) are stored

Infrared communication port

Maximum distance: 10 cm Data word length: 8 bits Stop bits: 9600 bps Transfer rate:

For data transfer to devices with IrDA compatible port

Ambient temperature range for use: -10 to +50°C, 30 - 90% RH

Power supply: IEC R03 (size AAA) battery x 2

Power consumption: Approx. 75 mA (power supply voltage 3 V, Power supply: Power consumption:

backlight off) Battery life with continuous use: Approx. 8 hours

(with alkaline batteries, at 20°C)

Auto power-off function: Automatic shutoff after 10 minutes of switch

inactivity

147.5 (D) x 32 (W) x 24 (H) mm Dimensions: Weight: Approx. 70 g Supplied accessories: Carrying case

IEC R03 (size AAA) battery Instruction manual

* Windows is a trademark of Microsoft Corporation.

* HyperTerminal is trademark of Hilgraeve, Inc.

Specifications subject to change without notice.

RION CO., LTD.

20-41, Higashimotomachi 3-chome, Kokubunji, Tokyo 185-8533, Japan

Telephone: +81-42-359-7888 Fax: +81-42-359-7442 URL: http://www.rion.co.jp/ E-mail: info@rion.co.jp

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