VM-5 SERIES MONITOR **SPECIFICATIONS**

MODEL VM-5B DUAL ACCELERATION MONITOR



No entry if additional Model Code / Additional Spec. Code(spec, code is not specified. VM-5B-High cut-off Rectification Monitor range Input signal Low cut-off frequency*2 Recorder output frequency ' 4 to 20mAD CA Series Average valu 0 to 5g pk 20Hz 200Hz 0 to 50m/s² pk Н pk-pk 1 to 5VDC 50Hz 0 to 100m/s² pk 0 to 10g pk Output card 2 (additional spec./RMS) 2 100Hz 1kHz /IS□ or /RE□ 5 5 0 to 1in/s pk 5 2kHz option 0 to 20mm/s pk 200Hz 5kHz 0 to 50mm/s pk 0 to 2in/s pk 500Hz 10kH: 8 9.5Hz Seismic filter*3 8 0 to 20m/s² rms*1 0 to 5g rms*1 8 20kHz A 0 to 50m/s² rms*1 B 0 to 100m/s² rms*1 0 to 10g rms* 14Hz Seismic filter* Note) *3 A filter card (option) is required for use of seismic and pipe 0 to 20g rms *1 filters The seismic filter can be turned ON/OFF (IN/OUT) by an C 0 to 200m/s² rms *1 0 to 1in/s rms*1 40Hz(36dB/oct) С external contact signal. (Preset to OFF(OUT)) At seismic filter is OFF (OUT), the low cut-off frequency is 2Hz. Pipe filter*3 D 0 to 20mm/s rms*1 T 0 to 2in/s rms*1 The pipe filter is normally ON (IN); it cannot be set to OFF (OUT). 0 to 50mm/s rms 60Hz(36dB/oct) D F 0 to 100mm/s rms*1 Pipe filter*3 Note) *1 Rectification circuit (option) required for this rms range.
*2 Select so that Thich cut-off frequency≥l ow cut-off frequency≥l Select so that [high cut-off frequency\textsum cut-off frequency\texts The use of seismic and pipe filters is recommended where low-frequency ambient vibration are especially strong. Alarm reset Alarm reset Relay mode Relay mode Relay mode Alarm delay Alarm dela (ALERT) (DANGER) time(DANGER) time(ALERT) (DANGER) (OK) (ALERT) (ÓK) CH1:2 points(DANGER1,ALERT1) IITO-RES ÚTO-RÉ NORMALLY NORMALLY NORMALLY 0 3 sec DE-ENERGIZED 1 1 SELF-HOLD SELF-HOLD DE-ENERGIZED DE-ENERGIZEI CH2:2 points(DANGER2.ALERT2) CH1:4 points(DANGER1,DANGER NORMALLY NORMALLY 2 6 sec **ENERGIZED** ALERT1,ALERT2) 3 None /RMS/(IS)/5G /TRP/EX or RE Input power supply requirements*5 Recorder option Tropical Sensitivity rms. rectification Isolate output correction output spec When rectification code 2 is 4 to 20mAD0 0 to -10VDC 0 85 to 264VAC TIIS(IEC selected, specify this option code 1 to 5VDC 0 to 10VDC 24VDC 0 to -10VD0 4 0 to -5VDC 110VD0 0 to 10VDC 3 5 0 to 5VDC *4 It is necessary to set all monitor units in the same rack in first out function 4 0 to -5VDC ON when it is used first out function. 0 to 5VDC *5 The product that the power supply voltage specification is 0 or 2 does not When recorder output code 2 is selected, conform to CF specify this option code Standard Specifications Ordering Information ALARM SET VALUE ALARM INDICATOR DANGER1 DANGER (red LED) (yellow LÉD) ALERT ABNOR.ALARM DANGER2 OK (green LED) ALERT2 **INDICATOR BYPASS** (red LED) Unless specified otherwise, preset to: BYPASS INDICATOR 100% of monitor range TRANSUDUCER INPUT CA Series 90% of monitor range ALERT Number of input points SEQUENCE SET INPUT IMPEDANC Approx.50kΩ ×1.0 to 10.0 (×0.1 step) EXTERNAL CONTACT Contact type:Dry contact Preset to ×1.0 unless specified otherwise. CAUTION: Set the alarm set value so that its designated multiple is within 110% of the measurement range during operation of the sequence circuit. (to increase alarm set value during operation of (FROM REAR PANEL) Contact for sequence the sequence circuit) BAR GRAPH METER Recorder output conversion accuracy ±2.5% of F. If set to more than 110%, alarm may not be output. DIGITAL METER Recorder output conversion accuracy ±1.0% of F.S SUPPRESSION RECORDER OUTPUT 0.0 to 10.0 % of monitor range (0.1 % step) ±0.5% of F.S. at calibration frequency at 25°C FUNCTION SET VALUE CONVERSION ±2.0% of F.S. at calibration frequency at 0 to 65°C unless specified otherwise. CAUTION: When the measurement value is not more than (the calibration frequency is determined by the cut-off suppression function set value, indication and frequency range.) RECORDER OUTPUT recorder output value shall be as 0 % Voltage or current output proportional to monitor range voltage of current output inpotential to infolition fall to 5VDC (output impedance : 250Ω) 4 to 20mADC (max.load resistance : 500Ω) 0 to -10VDC*,0 to 10VDC*,0 to -5VDC*,0 to 5VDC* (output impedance : 100Ω) (*option) (FROM REAR PANEL) Standard Specifications ALARM SET POINT ALARM SET RANGE 4 points(DANGER1,ALERT1,DANGER2,ALERT2) 0 to 110% of monitor range ±1.0% of F.S. or less Number of output points 2 points MONITOR OUTPUT (FROM FRONT, REAR PANEL) Input signal is output via a buffer amplifier.
Signal level : 0.8 to 22VDC ACCURACY +0.1% of E.S. or less ALARM SET Signal level REPEATABILITY Output impedance 100Ω (load resistance : 50kΩ or more) 5 points (DANGER1,ALERT1,DANGER2,ALERT2,OK) or 6 points (DANGER1,ALERT1,DANGER2,ALERT2,OK1,OK2) Operating temperature ALARM OUTPUT TEMPERATIRE RANGE 0 to 65°C(32 to 149°F -30 to +85°C(-22 to 185°F) Storage temperature Relative himidity 20 to 95%RH(noncondensing) MEASURED VALUE LCD digital meter with 5 digits (7 segments, with back light) MATERIAL AND FINISH Face plate (40 segments, with back light) Aluminum Munsell N-4.0 (equiv.) Measurement value and alarm set value are indicated on onitor : max.0.7kg (including single unit instrument rack : max.2.5kg)

the digital meter and bar graph meter simultaneously

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