VM-5 SERIES MONITOR
SPECIFICATIONS

## MODEL VM-55 VIBRATION MONITOR

	Model Code / Additional Spe	c. Code( No entry if a spec. code	additional is not specified.	
	 VM-55-		—————————————————————————————————————	
		'무무 '무도	<del></del>	
lnp	ut signal   Input signal   Output signal #4   Deat		, Alarm reset Alarm reset Alarm re	eset
Monitor range	CH1 CH2 Output signal T Rect	ification Recorder rage value 0 4 to 20	OMADC   O AUTO-RESET   O AUTO-RESET	)
	FK-202F 2 CV-88 1 CH2: ABS 1 p	k to pk 1 1 to s	5VDC 1 SELF-HOLD 1 SELF-HOLD 1 SELF-lut card	
6 0 to 800µm pk-pk 8 0 to 10mils pk-pk	CH1: SEIS (addition	al spec./RMS) 2	or/RE□ )	
A 0 to 15mils pk-pk	3 CH1 : SEIS CH2 : ABS Note) *1 ABS(Absolute vibration), RE	(Relative vibration) SEIS	Seismic vibration)	
	SEIS: The output is converte			
	- 🖳 🖳 - 📮	1 - 🗆		
Relay mode (DANGER)	Relay mode Relay mode Alarm delay tin (ALERT) (OK) (DANGER)	(ALERT)	Alarm output type First ou	
0 NORMALLY DE-ENERGIZED	NORMALLY DE-ENERGIZED         NORMALLY DE-ENERGIZED	1 1 sec.	1   -   -   -   -   -   -   -   -   -	OFF ON
1 NORMALLY ENERGIZED	1         NORMALLY ENERGIZED         1         NORMALLY ENERGIZED         2         6 sec.           3         None	2 6 sec. 3 None		
		No	te) *2 It is necessary to set all monitor units in the same in first out function ON, when it is used first out fun	
	/RMS/(IS  or RE )/5G	☐ /TRP/EX ☐	]	
			- -	
rms. rectification	Isolate output Recorder option Input power supply output requirements	Tropical Sensitivity spec. Sensitivity		
When rectification code	2 0 4 to 20mADC 2 0 to -10VDC 0 85 to 264VAC	1 TIIS(IEC	)	
is selected, specify this option code.	1 1 to 5VDC 3 0 to 10VDC 1 24VDC 2 0 to -10VDC 4 0 to -5VDC 2 110VDC	2 FM 4 CSA		
	3 0 to 10VDC 5 0 to 5VDC 4 0 to -5VDC	5 ATEX		
	5 0 to 5VDC When recorder output code 2 is			
	selected, specify this option code.	_		
	Ordering Information	S	tandard Specifications	
ALARM SET VALUE	DANGER1 :ALERT1 :	ALARM INDICATOR	DANGER: (red LED) ALERT: (yellow LED)	
	DANGER2 :ALERT2 :	ABNOR. ALARM INDICATOR	OK : (green LED)	
	Unless specified otherwise, preset to : DANGER : 100% of monitor range	BYPASS INDICATOR TRANSDUCER INPUT	BYPASS : (red LED) CH1 : VK-202A,FK-202F (787mV/100μm)	
SEQUENCE SET	ALERT : 90% of monitor range : ×1.0 to 10.0 (×0.1 step)	(SCALE FACTOR)	CH2 : CV-86 or CV-88 (3.94mV/mm/s) Approx. 50kΩ	
VALUE	Preset to ×1.0 unless specified otherwise.	EXTERNAL CONTACT	Contact type : Dry contact	
(to increase alarm set value during operation of	CAUTION: Set the alarm set value so that its designated multiple is within 110% of the measurement	(FROM REAR PANEL)	Contact for external reset Contact for sequence	
the sequence circuit)	range during operation of the sequence circuit.  If it's set to more than 110%, it may not output	BAR GRAPH METER DIGITAL METER	Recorder output conversion accuracy ± 2.5% of F.S.  Recorder output conversion accuracy ± 1.0% of F.S.	
	alarm.	RECORDER OUTPUT	± 3.0% of F.S. at 100Hz at 25°C (77°F REF.)	
SUPPRESSION FUNCTION SET VALUE	: 0.0 to 10.0 % of monitor range (0.1 % step) Preset to 2.0 % unless specified otherwise.	CONVERSION ACCURACY	± 5.0% of F.S. at 100Hz at 0 to 65°C (32 to 149°F REF.)	
	CAUTION: When the measurement value is not more than suppression function set value, indication and	RECORDER OUTPUT (DC OUTPUT)	Voltage or current output proportional to monitor range 1 to 5VDC (output impedance: 250Ω)	
recorder output value shall be as 0 %.  OTHERS		(FROM REAR PANEL)	4 to 20mADC (max. load resistance : 500Ω) 0 to -10VDC*,0 to 10VDC*,0 to -5VDC*,0 to 5VDC*	
			(output impedance : $100\Omega$ ) (*option) Number of output points : 2 points	
	Standard Specifications	MONITOR OUTPUT (AC OUTPUT)	Buffered REL output and buffered velocity transducer out or buffered REL output and	tput,
ALARM SET POINT ALARM SET RANGE	4 points (DANGER1,ALERT1,DANGER2,ALERT2) 0 to 110% of monitor range	(FROM FRONT, REAR PANEL)	SEIS waveform output (787mV/100 $\mu$ m) Output impedance : 100 $\Omega$ (load resistance 50k $\Omega$ or more	e)
ALARM SET ACCURACY	± 3.0% of F.S. or less	FREQENCY RESPONSE	10 to 600Hz	

TEMPERATURE

**RANGE** 

Operating temperature Storage temperature Relative humidity

Face plate

Note) The VM-55 vibration monitor is calibrated with simulated input signals and above shows specifications with the simulated inputs. This monitor should not be calibrated as a loop with actual sensors.

Measurement value and alarm set value are indicated on the digital meter and bar graph meter simultaneously.

MATERIAL AND FINISH MASS

: 0 to 65°C (32 to 149°F REF.) : -30 to +85°C (-22 to +185°F REF.) : 20 to 95% (noncondensing)

Aluminum Munsell N-4.0 (equiv.)

Monitor : max.1.0kg (max.2.2lb REF.) (including single unit instrument rack : max.2.8kg (max.6.2lb REF.))

5 points (DANGER1,ALERT1,ALERT2,DANGER2,OK)

LCD digital meter with 5 digits (7 segments, with back light) LCD bar graph meter (40 segments, with back light)

± 0.1% of F.S. or less

ALARM SET

MEASURED

REPEATABILITY

ALARM OUTPUT

VIBRATION VALUE