VM-5 SERIES MONITOR SPECIFICATIONS

MODEL VM-5K DUAL VIBRATION MONITOR

 ϵ

Model Code / Additional Spec. Code(No entry if additional spec. code is not specified.)			
VM-5K-			
Monitor range Input signal Low cut-off frequency *3 High cut-off frequency *3 Rectification Recorder output (DANGER) (ALERT) (OK)			
1 0 to 100 \(\mu\)m pk-pk VK-202A, 1 5Hz or less 1 100Hz 0 Average value 0 4 to 20mADC 0 AUTO-RESET 0 AUTO-RESET 0 AUTO-RESET			
3 0 to 200µm pk-pk FK-202F 3 14Hz Seismic filter*1 3 1kHz 2 rms Output card			
4 Oto 400/pm pk-pk 2 VK-302P, 4 ISHZ SetIsmic litter 1 4 4kHZ [additional spect/kins] 2 ISLO 0 ISLO 0			
6 0 to 3mils pk-pk 7 to 5 series 7 to 10 to 5mils pk-pk 3 (VC Series 5 Pipe filter *1 Note) *1 A filter card (option) is required for use of seismic and pipe filters. The seismic filter can be turned ON/OFF (IN/OUT) by an external contact signal.			
8 0 to 10mils pk-pk			
The pipe filter is normally ON(lN); it cannot be set to OFF(OUT). Note) *3 Select so that [high cut-off frequency≥Low cut-off frequency×10]			
- 🗆 🗆 🗆 - 🗆			
		丁工芸一盃	
Relay mode (DANGER)	Relay mode Relay mode Alarm delay tir (ALERT) (OK) (DANGER)	ne Alarm delay time (ALERT)	Alarm output type First out*2
0 NORMALLY	NORMALLY NORMALLY 0 3 sec.	0 3 sec.	1 CH1: 2 points (DANGER1,ALERT1) 0 OFF
DE-ENERGIZED NORMALLY	DE-ENERGIZED	1 1 sec. 2 6 sec.	CH2: 2 points (DANGER2, ALERT2) 1 ON CH1: 4 points (DANGER1, DANGER2,
ENERGIZED	' ENERGIZED ' ENERGIZED 3 None		2 ALERT1,ALERT2) CH2: None
Note) *2 It is necessary to set all monitor units in the same rack in first out function ON when it is used first out function. C12 Note 3 Special alarm logic(option)			
/RMS/(IS ☐ or RE ☐)/5G ☐ /TRP/EX ☐ /LG ☐			
rms. rectification	Isolate output Recorder option Input power supply	Tropical Sensitivity	Special alarm logic DANGER ALERT
When rectification code	output requirements 2 2 0 4 to 20mADC 2 0 to -10VDC 0 85 to 264VAC	spec. correction 1 TIIS(IEC)	1CH 2CH 1CH 2CH >DANGER >DANGER >ALERT >ALERT
is selected, specify this option code.	1 1 to 5VDC 3 0 to 10VDC 1 24VDC	2 FM	>DANGER NOT OK >ALERT <alert< td=""></alert<>
option code.	3 0 to 10VDC 5 0 to 5VDC	4 CSA 5 ATEX	1 NOT OK >DANGER <alert>ALERT >ALERT NOT OK</alert>
4 0 to -5VDC			NOT OK >ALERT >DANGER >DANGER >ALERT >ALERT
When recorder output code 2 is selected, specify this option code.			>DANGER >ALERT >ALERT <alert 2="">ALERT >DANGER <alert>ALERT</alert></alert>
Note) Input abnormal alarm is not applicable in case		ase of VC input signal	>DANGER NOT OK >ALERT NOT OK NOT OK >DANGER NOT OK >ALERT
, , , , , , , , , , , , , , , , , , ,			
ALARM SET VALUE	Ordering Information	ALARM INDICATOR	tandard Specifications IDANGER: (red LED)
ALARIWI SET VALUE	DANGER1 :		ALERT : (yellow LÉD)
	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) VK-202A,VK-202P,FK-202F,VK-302P,FK-302F,VC Series
SEQUENCE SET	ALERT : 90% of monitor range : x1.0 to 10.0 (x0.1 step)	INPUT IMPEDANCE	Number of input points : 2 points Approx. 50kΩ
VALUE (to increase alarm set	Preset to ×1.0 unless specified otherwise. CAUTION: Set the alarm set value so that its designated	EXTERNAL CONTACT INPUT	Contact type : Dry contact Contact for external reset
value during operation of the sequence circuit)	multiple is within 110% of the measurement range during operation of the sequence circuit.	(FROM REAR PANEL)	Contact for sequence
,	If set to more than 110%, alarm may not be output.	BAR GRAPH METER DIGITAL METER	Recorder output conversion accuracy ± 2.5% of F.S. Recorder output conversion accuracy ± 1.0% of F.S.
SUPPRESSION	: 0.0 to 10.0 % of monitor range (0.1 % step)	RECORDER OUTPUT CONVERSION	± 0.5% of F.S. at 100Hz at 25°C (77°F REF.) ± 2.0% of F.S. at 100Hz at 0 to 65°C (32 to 149°F REF.)
FUNCTION SET VALUE	Preset to 2.0 % unless specified otherwise. CAUTION: When the measurement value is not more than	ACCURACY RECORDER OUTPUT	Voltage or current output proportional to monitor range
	suppression function set value, indication and recorder output value shall be as 0 %.	(FROM REAR PANEL)	1 to 5VDC (output impedance : 250Ω) 4 to 20mADC (max. load resistance : 500Ω)
Standard Specifications		1	0 to -10VDC*,0 to 10VDC*,0 to -5VDC*,0 to 5VDC* (output impedance : 100Ω) (*option)
ALARM SET POINT	4 points (DANGER1,ALERT1,DANGER2,ALERT2)	MONITOR OUTPUT	Number of output points : 2 points Input signal is output via a buffer amplifier.
ALARM SET RANGE	0 to 110% of monitor range	(FROM FRONT, REAR	Signal level : -0.8 to -22VDC(VK), 0 to 5VDC(VC)
ALARM SET ACCURACY	± 1.0% of F.S. or less	PANEL) TEMPERATURE	Output impedance : 100Ω (load resistance $50k\Omega$ or more) Operating temperature : $0 \text{ to } 65^{\circ}\text{C}$ (32 to 149°F REF .)
ALARM SET REPEATABILITY	± 0.1% of F.S. or less	RANGE	Storage temperature : -30 to +85°C (-22 to +185°F REF.) Relative humidity : 20 to 95% (noncondensing)
ALARM OUTPUT	5 points (DANGER1,ALERT1,ALERT2,DANGER2,OK) or 6 points (DANGER1,ALERT1,ALERT2,DANGER2,OK1,OK2)	MATERIAL AND FINISH MASS	Face plate : Aluminum Munsell N-4.0 (equiv.)
MEASURED VIBRATION VALUE	LCD digital meter with 5 digits (7 segments, with back light) LCD bar graph meter (40 segments, with back light)	1	Monitor : max.0.7kg (max.1.6lb REF.)
	* Measurement value and alarm set value are indicated on the digital meter and bar graph meter simultaneously.		(including single unit instrument rack : max.2.5kg (max.5.5lb REF.))
	and any graph motor dimutaneously.	OTHERS	1

6H14-169 Rev.2 Issued : Feb.2015 Revised : May.2017