

VM-5 SERIES MONITOR
SPECIFICATIONS

MODEL VM-5D DUAL DIFFERENTIAL
EXPANSION MONITOR



Model Code / Additional Spec. Code (No entry if additional spec. code is not specified.)

VM-5D- 0 -

Monitor range	Input signal	Frequency response	Polarity*1	Recorder output	Alarm reset (DANGER)	Alarm reset (ALERT)	Alarm reset (OK)	
1 -5 to 0 to +5mm	1 VK-143P,FK-143F	0 DC to 0.5Hz	1 Direct	0 4 to 20mADC	0 AUTO-RESET	0 AUTO-RESET	0 AUTO-RESET	
2 0 to 10mm	2 VK-263P,FK-263F		2 Reverse	1 1 to 5VDC	1 SELF-HOLD	1 SELF-HOLD	1 SELF-HOLD	
3 -10 to 0 to +10mm	3 VC Series Voltage output only			2 Output card (/IS□ or /RE□) option				
4 0 to 20mm								
5 -0.25 to 0 to +0.25inch								
6 0 to 0.5inch								
7 -0.5 to 0 to +0.5inch								
8 0 to 1.0inch								

Note) *1 FK/VK

VC

Polarity	Indication and rec. output	
	Toward sensor	Away from sensor
Direct	Increase	Decrease
Reverse	Decrease	Increase

Polarity	Indication and rec. output	
	Toward sensor	Away from sensor
Direct	Decrease	Increase
Reverse	Increase	Decrease

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Relay mode (DANGER)	Relay mode (ALERT)	Relay mode (OK)	Alarm delay time (DANGER)	Alarm delay time (ALERT)	Alarm output type	First out*2
0 NORMALLY DE-ENERGIZED	0 NORMALLY DE-ENERGIZED	0 NORMALLY DE-ENERGIZED	0 3 sec.	0 3 sec.	1 CH1 : 2 points (DANGER1,ALERT1) CH2 : 2 points (DANGER2,ALERT2)	0 OFF
1 NORMALLY ENERGIZED	1 NORMALLY ENERGIZED	1 NORMALLY ENERGIZED	1 1 sec.	1 1 sec.		1 CH1 : 4 points (H-DANGER,H-ALERT, L-ALERT,L-DANGER)
			2 6 sec.	2 6 sec.	2 CH1 : 4 points (H-DANGER,H-ALERT, L-ALERT,L-DANGER) CH2 : None	
			3 None	3 None		

/(IS or RE)/5G /TRP/EX

Isolate output	Recorder option output	Input power supply requirements*3	Tropical spec.	Sensitivity correction
0 4 to 20mADC	2 0 to -10VDC	0 85 to 264VAC		2 FM
1 1 to 5VDC	3 0 to 10VDC	1 24VDC		4 CSA
2 0 to -10VDC	4 0 to -5VDC	2 110VDC		5 ATEX
3 0 to 10VDC	5 0 to 5VDC			
4 0 to -5VDC				
5 0 to 5VDC				

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.
*3 The product that the power supply voltage specification is 0 or 2 does not conform to CE.
Note) Input abnormal alarm is not applicable in case of VC input signal.

When recorder output code 2 is selected, specify this option code.

Ordering Information		Standard Specifications	
ALARM SET VALUE	H-DANGER1 : _____ H-ALERT1 : _____ L-ALERT1 : _____ L-DANGER1 : _____ H-DANGER2 : _____ H-ALERT2 : _____ L-ALERT2 : _____ L-DANGER2 : _____ Unless specified otherwise, preset to : H-DANGER : 100% of monitor range H-ALERT : 90% of monitor range L-ALERT : 10% of monitor range L-DANGER : 0% of monitor range	ALARM INDICATOR	DANGER : (red LED) ALERT : (yellow LED)
OTHERS	_____	ABNOR.ALARM INDICATOR	OK : (green LED)
		BYPASS INDICATOR	BYPASS : (red LED)
		TRANSUCER INPUT	VK-143P,FK-143F, VK-263P,FK-263F, VC Series Number of input points : 2 points
		INPUT IMPEDANCE	Approx.50kΩ
		EXTERNAL CONTACT INPUT (FROM REAR PANEL)	Contact type:Dry contact Contact for external reset
		BAR GRAPH METER	Recorder output conversion accuracy ±2.5% of F.S.
		ZERO SHIFT	0 to 100% of monitor range
		DIGITAL METER	Recorder output conversion accuracy ±1.0% of F.S.
		RECORDER OUTPUT CONVERSION ACCURACY	±0.5% of F.S. at 25°C ±2.0% of F.S. at 0 to 65°C
		RECORDER OUTPUT (FROM REAR PANEL)	Voltage or current output proportional to monitor range 1 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) 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(VK), 0 to 5VDC(VC) Output impedance : 100Ω (load resistance 50kΩ or more)
		TEMPERATURE RANGE	Operating temperature : 0 to 65°C (32 to 149°F) Storage temperature : -30 to +85°C (-22 to +185°F) Relative humidity : 20 to 95% (noncondensing)
		MATERIAL AND FINISH	Face plate : Aluminum Munsell N-4.0 (equiv.)
		MASS	Monitor : max.0.7kg (including single unit instrument rack : max.2.5kg)
ALARM SET POINT	8 points (H-DANGER1,H-ALERT1,L-DANGER1,L-ALERT1, H-ALERT2,H-DANGER2,L-ALERT2,L-DANGER2)		
ALARM SET RANGE	-10 to +110% of monitor range		
ALARM SET ACCURACY	±1.0% of F.S. or less		
ALARM SET REPEATABILITY	±0.1% of F.S. or less		
ALARM OUTPUT	5 points (DANGER1,ALERT1,ALERT2,DANGER2,OK) or 6 points (DANGER1,ALERT1,ALERT2,DANGER2,OK1,OK2) (H,L are OR output)		
MEASURED VALUE	LCD digital meter with 5 digits (7 segments, with back light) LCD bar graph meter (40 segments, with back light) * Measurement value and alarm set value are indicated on the digital meter and bar graph meter simultaneously.		
OTHERS	_____		