

VM-5 SERIES MONITOR
SPECIFICATIONS

MODEL VM-5E DUAL CASE
EXPANSION MONITOR



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

VM-5E- 0 -

Monitor range	Input signal	Frequency response	Polarity*1	Operation method	Recorder output	Alarm reset (DANGER)	Alarm reset (ALERT)	Alarm reset (OK)
1 0 to 25mm	1 VM-21 or VM-11P□-20S□□□2	0 DC to 0.5Hz	1 Direct	1 Differential	0 4 to 20mADC	0 AUTO RESET	0 AUTO RESET	0 AUTO RESET
2 0 to 50mm	2 VM-21 or VM-11P□-21S□□□2	Note) *1	2 Reverse	2 Direct	1 1 to 5VDC	1 SELF-HOLD	1 SELF-HOLD	1 SELF-HOLD
3 0 to 100mm	3 VM-21 or VM-11P□-22S□□□2				2 Output card (/IS□ or /RE□ option)			
4 0 to 1inch	4 VM-21 or VM-11P□-23S□□□2							
5 0 to 2inch	5 VM-21 or VM-11P□-24S□□□2							
6 0 to 4inch								

Polarity	Indication and rec. output	
	Rodend toward LVDT	Rodend away from LVDT
Direct	Increase	Decrease
Reverse	Decrease	Increase

Relay mode (DANGER)	Relay mode (ALERT)	Relay mode (OK)	Alarm delay time (DANGER)	Alarm delay time (ALERT)	Alarm output type	First output*2
0 NORMARY DE-ENERGIZED	0 NORMARY DE-ENERGIZED	0 NORMARY DE-ENERGIZED	0 3 sec.	0 3 sec.	In case of differential operation	0 OFF
1 NORMALLY ENERGIZED	1 NORMALLY ENERGIZED	1 NORMALLY ENERGIZED	1 1 sec.	1 1 sec.	1 CH1 : 2 points (DANGER1,ALERT1) H,L are OR output	1 ON
			2 6 sec.	2 6 sec.	2 CH1 : 4 points (H-DANGER,H-ALERT, L-ALERT,L-DANGER)	
			3 None	3 None	In case of direct operation	
					3 CH1 : 2 points (DANGER1,ALERT1) H,L are OR output CH2 : 2 points (DANGER2,ALERT2) H,L are OR output	
					4 CH1 : 4 points (H-DANGER,H-ALERT, L-ALERT,L-DANGER) CH2 : None	

/(IS or RE)/5G /TRP

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

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

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.

Ordering Information		Standard Specifications	
ALARM SET VALUE	* H-DANGER1 : _____ * H-ALERT1 : _____ * L-ALERT1 : _____ * L-DANGER1 : _____ H-DANGER2 : _____ H-ALERT2 : _____ L-ALERT2 : _____ L-DANGER2 : _____ Only * are set in case of differential operation 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	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.
		ALARM INDICATOR	DANGER : (red LED) ALERT : (yellow LED) OK : (green LED)
		ABNOR. ALARM INDICATOR	OK : (green LED)
		BYPASS INDICATOR	BYPASS : (red LED)
		TRANSDUCER INPUT	VM-11P, VM-21P Number of input points : 2 points
		INPUT IMPEDANCE	Approx. 250Ω
		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 When operation method is differential : 1 point
		MONITOR OUTPUT (FROM FRONT, REAR PANEL)	Input signal is output via a buffer amplifier. Signal level : 1 to 5VDC 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-ALERT1,L-DANGER1, H-DANGER2,H-ALERT2,L-ALERT2,L-DANGER2) In case of differential operation, 4 points (H-DANGER,H-ALERT,L-DANGER,L-ALERT)	
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,DANGER2,ALERT2,OK) or 6 points (DANGER1,ALERT1,DANGER2,ALERT2,OK1,OK2) In case of differential operation, 3 points (DANGER,ALERT,OK) or 4 points (DANGER,ALERT,OK1,OK2) (H,L are OR output) (6 points when 4-point alarm is selected for CH1)	
OTHERS			