

VM-5 SERIES MONITOR  
SPECIFICATIONS

MODEL VM-5A DUAL VALVE  
POSITION MONITOR



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

VM-5A-□□0□□ - □□□

Monitor range	Input signal	Frequency response	Polarity *1	Recorder output	Alarm reset (DANGER)	Alarm reset (ALERT)	Alarm reset (OK)											
1 0 to 50mm	1 VM-21 or VM-11P□-20S□□□2	0 DC to 0.5Hz	1 Direct	0 4 to 20mADC	0 AUTO-RESET	0 AUTO-RESET	0 AUTO-RESET											
2 0 to 100mm	2 VM-21 or VM-11P□-21S□□□2		2 Reverse	1 1 to 5VDC	1 SELF-HOLD	1 SELF-HOLD	1 SELF-HOLD											
3 0 to 150mm	3 VM-21 or VM-11P□-22S□□□2			2 Output card [ /IS□ or /RE□ option	Note) *1													
4 0 to 200mm	4 VM-21 or VM-11P□-23S□□□2				<table border="1"> <thead> <tr> <th rowspan="2">Polarity</th> <th colspan="2">Indication and rec.output</th> </tr> <tr> <th>Rodend toward LVDT</th> <th>Rodend away from LVDT</th> </tr> </thead> <tbody> <tr> <td>Direct</td> <td>Increase</td> <td>Decrease</td> </tr> <tr> <td>Reverse</td> <td>Decrease</td> <td>Increase</td> </tr> </tbody> </table>			Polarity	Indication and rec.output		Rodend toward LVDT	Rodend away from LVDT	Direct	Increase	Decrease	Reverse	Decrease	Increase
Polarity	Indication and rec.output																	
	Rodend toward LVDT	Rodend away from LVDT																
Direct	Increase	Decrease																
Reverse	Decrease	Increase																
5 0 to 250mm	5 VM-21 or VM-11P□-24S□□□2																	
6 0 to 300mm	6 VM-21 or VM-11P□-25S□□□2																	
	7 VM-21 or VM-11P□-26S□□□2																	
	8 VM-21 or VM-11P□-27S□□□2																	
	A VM-21 or VM-11P□-28S□□□2																	

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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.	2 CH1 : 4 points (H-DANGER,H-ALERT, L-ALERT,L-DANGER) CH2 : None	1 ON
			2 6 sec.	2 6 sec.		
			3 None	3 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 : _____ 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)
		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 input points : 2 points
ALARM SET POINT	8 points (H-DANGER1,H-ALERT1,L-ALERT1,L-DANGER1, H-DANGER2,H-ALERT2,L-ALERT2,L-DANGER2)	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)
ALARM SET RANGE	-10 to +110% of monitor range	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%RH (noncondensing)
ALARM SET ACCURACY	±1.0% of F.S. or less	MATERIAL AND FINISH	Face plate : Aluminum Munsell N-4.0 (equiv.)
ALARM SET REPEATABILITY	±0.1% of F.S. or less	MASS	Monitor : max.0.7kg (including single unit instrument rack : max.2.5kg)
ALARM OUTPUT	5 points (DANGER1,ALERT1,DANGER2,ALERT2,OK) or 6 points (DANGER1,ALERT1,DANGER2,ALERT2,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			