

VM-5 SERIES MONITOR
SPECIFICATIONS

MODEL VM-51 ROD DROP MONITOR



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

VM-51- 0 -

Monitor range		Input signal		Measurement range		Polarity*1		Recorder output		Alarm reset (DANGER)		Alarm reset (ALERT)		Alarm reset (OK)	
1	0 to +2.0mm	1	VK-302P,FK-302F	0	60 to 1200rpm	1	Direct	0	4 to 20mADC	0	AUTO-RESET	0	AUTO-RESET	0	AUTO-RESET
2	0 to +3.0mm	2	VK-452A,FK-452F			2	Reverse	1	1 to 5VDC	1	SELF-HOLD	1	SELF-HOLD	1	SELF-HOLD
3	0 to +5.0mm	3	VK-602P,FK-602F					2	Output card (/IS or /RE) option						
4	0 to +10.0mm	4	VK-143P,FK-143F												
		5	VK-263P,FK-263F												

Note)*1

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

- - 0

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

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

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

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

Note) *2 The product that the power supply voltage specification is 0 or 2 does not conform to CE.

Order Information		Standard Specifications	
ALARM SET VALUE	H-DANGER1 :	ALAMR INDICATOR	DANGER : (red LED)
	H-ALERT1 :		ALERT : (yellow LED)
	L-ALERT1 :	ABNOR. ALAMR INDICATOR	OK : (green LED)
	L-DANGER1 :	BYPASS INDICATOR	BYPASS : (red LED)
	H-DANGER2 :	TRANSDUCER INPUT	VK-302P,FK-302F,VK-452A,FK-452F,VK-602P,FK-602F, VK-143P,FK-143F,VK-263P,FK-263F Number of input points : 2 points
	H-ALERT2 :	PHASE MARKER SIGNAL	VM-5W1 or VM-5H3 rack : supplied via the bus board from VM-5P. VM-5G rack : supplied to ϕ -IN terminal of rear terminal block
L-ALERT2 :	OTHERS	SENSOR FOR PHASE MARKER	RD, VK, FK
L-DANGER2 :		INPUT IMPEDANCE	Approx.50k Ω
Unless specified otherwise, preset to :		EXTERNAL CONTACT INPUT (FROM REAR PANEL)	Contact type:Dry contact Contact for external reset
H-DANGER : 80% of monitor range		BAR GRAPH METER	Recorder output conversion accuracy \pm 2.5% of F.S.
H-ALERT : 60% of monitor range		ZERO SHIFT	0 to 100% of monitor range
L-ALERT : 40% of monitor range		DIGITAL METER	Recorder output conversion accuracy \pm 1.0% of F.S.
L-DANGER : 20% of monitor range	RECORDER OUTPUT CONVERSION ACCURACY	\pm 1.0% of F.S. at 25°C \pm 2.0% of F.S. at 0 to 65°C	
Standard Specifications		RECORDER OUTPUT (FROM REAR PANEL)	Voltage or current output proportional to monitor range. 1 to 5VDC (output impedance : 250 Ω) 4 to 20mADC (max. load resistance : 500 Ω) 0 to -10VDC*,0 to 10VDC*,0 to -5VDC*,0 to 5VDC* (output impedance : 100 Ω) (*option) Number of output 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 : -0.8 to -22VDC or 0 to 5VDC Output impedance : 100 Ω (load resistance : 50k Ω or more)
ALARM SET RANGE	-10% to +110% of monitor range	TEMPERATURE RANGE	Operating temperature : 0 to 65°C Storage temperature : -30 to +85°C Relative humidity : 20 to 95%RH (noncondensing)
ALARM SET ACCURACY	\pm 1.0% of F.S. or less	MATERIAL AND FINISH	Face plate : Aluminum Munsell N-4.0 (equiv.)
ALAMR SET REPEATABILITY	\pm 0.1% of F.S. or less	MASS	Monitor : max.0.7kg (including single unit instrument rack max.2.5kg)
ALARM OUTPUT	5 points (ALERT1,ALERT2,DANGER1,DANGER2,OK) or 6 points (ALERT1,ALERT2,DANGER1,DANGER2,OK1,OK2)		
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.		