VM-5 SERIES MONITOR

SPECIFICATIONS

MODEL VM-5E DUAL CASE EXPANSION MONITOR

*3

CE

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

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Relay mode (DANGER)		Relay mode (ALERT)		Relay mode (OK)		Alarm delay time (DANGER)		Alarm delay time (ALERT)	
0	NORMARY DE-ENERGIZED	0	NORMARY DE-ENERGIZED	0	NORMARY DE-ENERGIZED	0	3 sec.	0	3 sec.
1	NORMALLY ENERGIZED	1	NORMALLY ENERGIZED	1	NORMALLY ENERGIZED	1	1 sec.	1	1 sec.
						2	6 sec.	2	6 sec.
						3	None	3	None

Alarm output type		First output*2	
In case of differential operation		0	OFF
1	CH1 : 2 points (DANGER1,ALERT1) H,L are OR output	1	ON
2	CH1 : 4 points (H-DANGER,H-ALERT, L-ALERT,L-DANGER)		
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*3		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.
*3 The product that the power supply voltage specification is 0 or 2 does not conform to CE.

Ordering Information

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

Standard Specifications

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

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Standard Specifications

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)
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 acuracy ± 2.5% of F.S.
ZERO SHIFT	0 to 100% of monitor range
DIGITAL METER	Recorder output conversion acuracy ± 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)