

VM-5 SERIES MONITOR SPECIFICATIONS

MODEL VM-5F DUAL TEMPERATURE MONITOR

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

VM-5F- -

Monitor range				Input		Recorder output		Alarm reset (DANGER)		Alarm reset (ALERT)		Alarm reset (OK)	
1	0 to 100°C	A	0 to 200°F	1	RTD R100/R0 Value=1.3851(3-wire)*1	0	4 to 20mADC	0	AUTO-RESET	0	AUTO-RESET	0	AUTO-RESET
2	0 to 150°C	B	0 to 300°F	2	RTD R100/R0 Value=1.3851(4-wire)	1	1 to 5VDC	1	SELF-HOLD	1	SELF-HOLD	1	SELF-HOLD
3	0 to 200°C	C	0 to 400°F	J	Thermocouple Type J	2	Output card [/IS□ or /RE□ option]	Note) *1 Not applicable for intrinsically safe loop. 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.					
4	0 to 250°C	D	0 to 500°F	K	Thermocouple Type K								
5	0 to 300°C	E	0 to 1,000°F	T	Thermocouple Type T								
6	0 to 500°C	F	0 to 1,500°F	E	Thermocouple Type E								
7	0 to 750°C	G	0 to 2,000°F										
8	0 to 1,000°C												

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

/ (IS ☐ or RE ☐) / TRP

Isolate output	Recorder option output	Tropical spec.
0 4 to 20mADC	2 0 to -10VDC	
1 1 to 5VDC	3 0 to 10VDC	
2 0 to -10VDC	4 0 to -5VDC	
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) • Reference junction compensation is provided.
• Monitor accuracy do not include thermocouple and RTD error.
• Not applicable for VM-5G rack.

Ordering Information			Standard Specifications	
ALARM SET VALUE	H-DANGER1 :		ALARM INDICATOR	DANGER : (red LED) ALERT : (yellow LED)
	H-ALERT1 :		ABNOR. ALARM INDICATOR	OK : (green LED)
	L-ALERT1 :		BYPASS INDICATOR	BYPASS : (red LED)
	L-DANGER1 :		INPUT	Thermocouple or RTD Number of input points : 2 points
	H-DANGER2 :		EXTERNAL CONTACT INPUT (FROM REAR PANEL)	Contact type : Dry contact Contact for external reset
	H-ALERT2 :		BAR GRAPH METER ACCURACY () is reference value.	≤ 500°C (1000°F) of monitor range : ±1°C (1.8°F) ±2.5% of F.S. > 500°C (1000°F) and ≤ 1000°C (2000°F) of monitor range : ±2°C (3.6°F) ±2.5% of F.S.
	L-ALERT2 :		DIGITAL METER ACCURACY () is reference value.	≤ 500°C (1000°F) of monitor range : ±1°C (1.8°F) at 25°C ±2.0% of F.S. at 0 to 65°C Display resolution : 0.1 digit > 500°C (1000°F) and ≤ 1000°C (2000°F) of monitor range : ±2°C (3.6°F) at 25°C ±2.0% of F.S. at 0 to 65°C Display resolution : 1 digit
	L-DANGER2 :		RECORDER OUTPUT CONVERSION ACCURACY () is reference value.	≤ 500°C (1000°F) of monitor range : ±1°C (1.8°F) ±0.5% of F.S. at 25°C > 500°C (1000°F) and ≤ 1000°C (2000°F) of monitor range : ±2°C (3.6°F) ±0.5% of F.S. at 25°C
OTHERS	Unless specified otherwise, preset to :		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
	H-DANGER : 100% of monitor range		TEMPERATURE RANGE	Operating temperature : 0 to 65°C Storage temperature : -30 to +85°C Relative humidity : 20 to 95% (noncondensing)
	H-ALERT : 90% of monitor range		MATERIAL AND FINISH	Face plate : Aluminum Munsell N-4.0 (equiv.)
	L-ALERT : 10% of monitor range		MASS	Monitor : max.0.7kg
	L-DANGER : 0% of monitor range			
Standard Specifications				
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 digit or less (on digital indicator)			
ALARM OUTPUT	5 points (DANGER1,ALERT1,DANGER2,ALERT2,OK)			
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.			