

VM-5 SERIES MONITOR
SPECIFICATIONS

MODEL VM-5G SINGLE UNIT
INSTRUMENT RACK



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

VM-5G - /TRP

Power supply voltage*3		Input		Tropical spec.
0	85 to 264VAC	1	CA Series,CV-86 *1	Note) This code is applicable only to Model VM-5G. Note) *1 2-wire transducer requiring a constant current power supply (+24VDC, 4mA). *2 3-wire transducer requiring a -24VDC power supply, or any other transducer that does not cause power to be supplied from the monitor to the transducer. *3 The product that the power supply voltage specification is 0 or 2 does not conform to CE.
1	24VDC±10%	2	CV-85,CV-87 *2 VK,RD,FK,MS VC,VM-11P,VM-21P	
2	110VDC±10%	3	Input for VM-51 1CH:VK,FK 2CH:VK,FK #:VK,RD,FK	
		4	Input for VM-55 1CH:VK-202A,FK-202F 2CH:CV-86,CV-88	

Ordering Information		Standard Specifications	
BEZEL (OPTION)	<input type="checkbox"/> Required(couple) <input type="checkbox"/> Not required	POWER OUTPUT FOR TRANSDUCER	+24VDC, 4mA (input code:1) -24VDC,20mA (input code:2) 1CH : -24VDC, 40mA 2CH : -24VDC, 20mA (input code:3) 1CH : -24VDC, 20mA 2CH : +24VDC, 4mA (input code:4)
OTHERS		EXTERNAL CONTACT INPUT (FROM REAR PANEL)	Contact for alarm reset (normally open) Contact for sequence (normally open) Contact type : Dry contact
Power supply voltage specification 0 and 2 : Does not conform to CE. Conform to RoHS directive.		INSULATION RESISTANCE	Between power supply and GND : 100MΩ or more at 500VDC Between GND and alarm contact : 100MΩ or more at 500VDC
Power supply voltage specification 1 : Conform to CE.		Dielectric Strength	Between power supply and GND : 1500VAC, one minute
		POWER CONSUMPTION	VM-5G0 : 40VA or less VM-5G1 : 30W or less VM-5G2 : 40W or less
		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	Rack : SPCC Munsell N-2.0 (equiv.) Rear plate : SPCC Unichromate plating finish (black) Bezel : Aluminum Munsell N-1.0 (equiv.)
		MASS	Rack : max.1.8kg Bezel : max.0.2kg
RELAY POINTS	5 points(DANGER1,ALERT1,DANGER2,ALERT2,OK)		
CONTACT RATING (LOAD RESISTANCE)	250VAC,0.2A 30VDC,2A		
CONTACT LIFE	100,000 times or more(rated load)		
CONTACT METHOD	SPDT(DAN.1,DAN.2,ALE.1,ALE.2,OK)5 points relay		
PROTECTIVE CONSTRUCTION	Plastic sealed		

Alarm contact operation

Monitor alarm relay mode	Monitor power OFF	Monitor power ON	
		Normal state	Alarm state
NO contact NORMALLY DE-ENERGIZED	OPEN	OPEN	CLOSE
NO contact NORMALLY ENERGIZED	OPEN	CLOSE	OPEN
NC contact NORMALLY DE-ENERGIZED	CLOSE	CLOSE	OPEN
NC contact NORMALLY ENERGIZED	CLOSE	OPEN	CLOSE

- Note)
- Ventilation holes are drilled through the top, bottom and side faces of the instrument rack for natural cooling. When mounting the instrument rack within the panel, do not close these ventilation holes. If closed, the temperature in the rack may rise to shorten the service life of electronic parts used.
 - Do not place anything which interrupts ventilation within 200 mm from top and bottom faces of the instrument rack.
 - When multiple VM-5G racks are installed in a row, the temperature of them may increase considerably. It is recommended to use intermediate bezels (VZ-56-2) to keep them 10mm or more apart from each other.
 - Do not place the apparatus which generates heat under the instrument rack.
 - Be careful when installing the instrument rack in a bad-ventilated closed box (instrument panel).
 - It may cause shortening the life time of electronic parts because of marked rising in temperature of the instrument rack in a bad-ventilated closed box which keeps the heat in. Cool down inside the box with a cooling fan or the like. Especially when installing in a small closed box, use the forced-air cooling apparatus like an electronic air conditioner.
 - CE means conformity with EC directive for only the rack, but not for all the units which are installed in the rack, nor for the whole system.