

VM-5 SERIES MONITOR  
SPECIFICATIONS

MODEL VM-53 DUAL COMMUNICATION UNIT

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

New model code

VM-53-□ / BTT / TRP / CEM

Husing fix screw size	Battery	Tropical spec.	CE marking
0 #4-40UNC			
1 M2.6x0.45			

Original model code VM-53-□ / BTT / TRP

Serial interface	Battery	Tropical spec.
1 RS-232		
2 RS-485		

Standard Specifications		Standard Specifications	
COMMUNICATION DATA	Measurement value, set gap voltage, OK state, ALERT state, DANGER state, DANGER bypass state, CH bypass state	PROTOCOLS	Modbus® : Based on AEG Modicon PI-MBUS-300 Reference Manual. Uses Remote Terminal Unit(RTU) transmission mode. Modbus is a registered trademark of Modicon, Inc.
I/O CONNECTOR	D-Sub 9P 4pc. (CN1 to CN4) Housing fix screw : #4-40UNC or M2.6x0.45 Specified when ordering. Unless specified otherwise, preset to #4-40UNC. Recommended connector(Socket side) Connector Housing XM2D-0901 XM2S-0913(#4-40UNC) GM(E)-9F GM-9LD55GU(#4-40UNC) GM-9LD55G(M2.6x0.45) [HONDA]	ID SETTING	Set range 1 to 10 Specified when ordering. Unless specified otherwise IN1: 1 IN2: 2 (can be changed with connected computer.)
		TERMINAL SETTING	ON or OFF Specified when ordering. Unless specified otherwise IN1: ON IN2: ON (can be changed by internal switch.)
SERIAL INTERFACE	RS-232 or RS-485 Specified when ordering. Unless specified otherwise, preset to RS-232. (can be changed by internal switch.)	Phase Marker OK status	TB(Valid) or FIX(Invalid) Preset to FIX(Invalid) (can be changed by internal switch.)
BAUD RATE	1200,2400,4800,9600,19200 bps (RS-232) 1200,2400,4800,9600,19200,38400 bps (RS-485) Preset to 9600 bps. (can be changed with connected computer.)	TEMPERATURE RANGE	Operating temperature : 0 to 65°C(32 to 149°F)(without battery) 0 to 50°C(32 to 122°F)(with battery) Storage temperature : -30 to +85°C(-22 to +185°F)(without battery) -20 to +55°C(-4 to +131°F)(with battery) Relative humidity : 20 to 95%RH(noncondensing)
DATA LENGTH	7 bit or 8 bit Preset to 8 bit. (can be changed with connected computer.)		
PARITY	ODD(odd number),EVEN(even number), NONE(none) Preset to NONE. (can be changed with connected computer.)	MASS	Monitor : max.0.4kg
STOP BIT	1 bit or 2 bit Preset to 1 bit (can be changed with connected computer.)	Others	
FLOW CONTROL	None		

Note)

- Model VM-53 Dual Communication Unit can be installed in any slot for the Relay Module at VM-5H3 or VM-5W1 Instrument Rack.  
The Monitor Unit should not be installed in the front side of the VM-53.
- Model VM-5P3 Phase Marker Unit must be selected when Phase Marker is required.  
Model VM-53 and Model VM-5P1,2 Communication/Phase Marker Unit should not be installed in the same rack.
- Buffer output signal from Model VM-5P3 should be connected to IN and COM terminal of Model VM-53 when the Phase Marker OK state is required as a communication data item.
- The operating temperature range is limited to 0 to 50°C(32 to 122°F) with the battery.  
The time information may be lost when the power is turned off without the battery.
- Only one VM-53 Unit can be installed in a Rack.
- It is not able to communicate with VM-5 monitor unit which is not an applicable model for VM-53.  
Software version number of an applicable model for VM-53 is "A" and after as follows.  
(Software version number is indicated on the internal circuit board.)  
Vibration, Thrust, Expansion, Differential expansion monitor : 2194-001-F004A and after  
Rotor monitor : 2194-001-F005A and after  
Eccentricity monitor : 2194-001-F006A and after  
Dual temperature monitor : 2A98-001-F001A and after  
Rod drop monitor : 2B99-002-F001A and after  
Bottom hold monitor : 2B99-002-F001A and after
- VZ-65 (Configuration file for VM-53) is needed to set the communication specifications and customize the communication data address.
- The daisy chain connections are five racks or less.