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

Husing fix screw size		Battery	Tropical spec.
0	#4-40UNC		
1	M2.6×0.45		

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 M2.6×0.45 Specified when ordering. Unless specified otherwise, preset to #4-40UNC. Recommended connector(Socket side) Connector Housing XM2D-0901 XM2S-0913(#4-40UNC) XM2S-0911(M2.6×0.45) [OMRON] GM(E)-9F GM-9LD55GU(#4-40UNC) GM-9LD55G(M2.6×0.45) [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 swich.)
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)

1. 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.
2. 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.
3. 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.
4. 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.
5. Only one VM-53 Unit can be installed in a Rack.
6. 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
7. VZ-65 (Configuration file for VM-53) is needed to set the communication specifications and customize the communication data address.
8. The daisy chain connections are five racks or less.