

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

VM-701B /PM□ /AL□

Phase Marker Function		Analysis Function	
0	Without	0	Without
1	With (When "/ALY" is requested)	Y	With

/NB1 /CS1 /CS2 /TRP /TB□

Non-incendive	Monitor Function	Analysis Function	Tropical spec.	I/O terminal block for	
1	Class I Division 2 CSA	Custom setup (When "/ALY" is requested)		1	VM-761B instrument rack
				2	VM-762B instrument rack

\*1 Please check the input rated power of the rack. Refer to the specification sheet, "VM-75□B POWER SUPPLY MODULE (Specification No. 31109E1.1 or later).

### Specification

#### INPUT (VIBRATION/DISPLACEMENT)

Input points : 4point  
Input impedance : Approx. 50kΩ  
(Current signal input: Approx. 250Ω)

#### INPUT TRANSDUCER (VIBRATION/DISPLACEMENT)

Displacement vibration input : FK-202F, FK-452F, FK-302F, VK-202A, VK-452A, VK-202P, VK-302P, VC-020  
Velocity vibration input : CV-88, CV-87, CV-86  
Acceleration vibration input : CA-302, CA-72  
Displacement input : FK-202F, FK-452F, FK-302F, FK-602F, FK-143F, FK-263F, VK-202A, VK-452A, VK-302P, VK-602P, VK-143P, VK-263P, VC-253  
Other input : VM-21P  
Voltage signal (Input range:-10V to +10V)  
Current signal (Input range:4mA to 20mA)

#### INPUT (Phase Marker) (When "/PM1" is requested)

Input point (tachometer) : 1point  
Input impedance : 50kΩ  
Input voltage range : Less than 50Vp-p  
Min. pulse width : 50μsec  
Hysteresis set value : 1V, 2V, 5V  
Maximum rotation speed : 60,000rpm

#### INPUT TRANSDUCER (Phase Marker) (When "/PM1" is requested)

Proximity transducer : FK-202F  
RD-05A

#### SYNCHRONIZED SIGNAL SOURCE

Another VM-701B or VM-706B : input via transducer input terminal.  
VM-741B : input via internal mother board.

#### OTHERS

#### OUTPUT

Indicators : OK LED (Green)  
When channel is normal : ON, When alarming : Flashing  
TRG LED (Yellow)  
When rotational pulse is not detected : ON  
When rotational pulse is detected : Flashing  
Monitor output : Input signal is output via buffer amplifier.  
Location : BNC (Front) and connector (Back)  
Output impedance : Approx. 100Ω (Max.5mA)  
Pulse output : Shaped pulse signal is output via a buffer amplifier.  
(When "/PM1" is requested) Location : BNC (Front)  
Output impedance : Approx. 100Ω (Max. 5mA)  
Signal level : 0V (V<sub>OL</sub>), 5V (V<sub>OH</sub>)  
Synchronized signal output : Shaped pulse signal is output via a buffer amplifier.  
Location : Terminal (Back)  
VM-761B : D5/D6  
VM-762B : 15pin D-SUB 13, 14  
Output impedance : Approx. 100Ω (Max.5mA)  
Signal level : 0V (V<sub>OL</sub>), 5V (V<sub>OH</sub>)  
Recorder output : Voltage or current output proportional to measurement value.  
Measurement value of each channel can be assigned to any output channel of its own module.  
Number of output points : 4 points.  
Output range : 1 to 5V, 4 to 20mA, 0 to 5V, 0 to 10V  
I/O conversion accuracy : ±1% of F.S. at 25°C\*2  
±2% of F.S. at 0°C to 65°C \*2  
Max. load resistance: 600Ω (current mood)  
Output impedance: Approx. 500Ω (voltage mood)  
Insulation resistance: 10MΩ at 100VDC  
Burnout function: Downscale 0%  
Downscale 0mA / 0mV  
Transducer power supply :  
Proximity transducer : -24VDC±10% / 25mA Max.  
Piezoelectric transducer : +24VDC±10% / 4mA (constant current)  
Contact output :  
Number of relay : 6 points (logic changeable)  
Contact type : Dry contact (SPDT)  
Energization method : Normally de-energized or Normally energized field changeable.  
Contact capacity : 250VAC/5A, 30VDC/5A  
Output to analysis software (When "/ALY" is requested)  
Dynamic data : Synchronous waveform, Asynchronous waveform  
Static data : Amplitude (0.5X, 1X, 2X, nX (n=0.01 to 8.00), Not-1X, S<sub>p-p</sub> max)  
(0.5X, 1X, 2X, nX (n=0.01 to 8.00))  
Phase : (0.5X, 1X, 2X, nX (n=0.01 to 8.00))  
Rotation speed : Refer to the specification sheet of VM-773B infiSYS ANALYSIS VIEW.

Note) \*2 At calibrate frequency.

Specification

ALARM

- Alarm set point : Vibration monitoring  
2 points (DANGER, ALERT), from 0 to 100% of monitor range, field changeable  
Displacement monitoring  
4 points (H-DANGER, H-ALERT, L-DANGER, L-ALERT), from -50% to +50% of monitor range, field changeable
- Alarm set accuracy : Vibration, Displacement  
 $\pm(0.2\%$  of F.S. +1digit) or less at 25°C
- Alarm set repeatability :  $\pm 1$ digit or less at 25°C
- Alarm delay time : 0 to 99sec (0.1 sec step, field changeable)
- Alarm reset : AUTO-RESET or SELF-HOLD field changeable.
- Alarm bypass function : Block off alarm output (DANGER)

VIBRATION (OVER ALL) MONITORING

- Rectification : Root Mean Square (RMS)  
Peak-to-Peak (p-p)  
Peak-to-Peak (p-p) rectification for low speed

- Note)
- Rectification is calculation method to convert vibration waveform to amplitude which may be different from monitor range scale.  
(Ex. p-p conversion scale by RMS rectification)
  - Refer to Table1 for rectification selection.
  - The peak rectification is recommended when high speed response time and true p-p rectification are preferred. The RMS rectification is recommended when noise resistance or runout inhibition are preferred.

(O:YES x:NO)

Transducer	Monitor Range (Parameter)	Rectification		
		RMS	p-p	p-p rectification for low speed
Displacement (VK, FK)	Displacement Vibration (p-p)	○	○	○
	Velocity Vibration (rms)	○	x	x
Velocity (CV)	Velocity Vibration (peak)	○	x	x
	Velocity Vibration (rms)	○	x	x
Acceleration (CA)	Velocity Vibration (peak)	○	x	x
	Acceleration Vibration (rms)	○	x	x
	Acceleration Vibration (peak)	○	x	x

Table 1 Selection table for rectification

- Root Mean Square (RMS)  
Recommend monitoring range : 100 to 1000 $\mu$ m, 10 to 100mm/s, 1 to 20g  
Accuracy :  $\pm 1\%$  of F.S. at 25°C\*3  
 $\pm 2\%$  of F.S. at 0°C to 65°C\*3  
HPF : 2Hz to 1kHz (-3dB)\*3 (4 pole)  
9.5Hz to 100Hz (-3dB)\*4 (10 pole)  
LPF : 200Hz to 10kHz (-3dB)\*4 (4 pole)
- Peak-to-Peak (p-p)  
Recommend monitoring range : 100 to 1000 $\mu$ m  
Accuracy :  $\pm 1\%$  of F.S. at 25°C\*3  
 $\pm 2\%$  of F.S. at 0°C to 65°C\*3  
HPF : 2Hz to 100Hz (-3dB)\*4 (2 pole)  
9.5Hz to 100Hz (-3dB)\*4 (10 pole)  
LPF : 500Hz to 1kHz (-3dB)\*4 (4 pole)

- Note) \*3 At calibrate frequency.  
\*4 There is un-match combination.  
(See "Vibration (Over All) Monitoring (Selection Table for Filter Set Value P.6, 7".)

- Peak-to-Peak (p-p) rectification for low speed  
Recommend monitoring range : 100 to 1000 $\mu$ m  
Accuracy :  $\pm 3\%$  of F.S. at 2Hz at 25°C  
HPF : 0.2Hz (-3dB), (1 pole)  
9.5Hz to 100Hz (-3dB) (10 pole)  
LPF : 500Hz to 1kHz (-3dB), (4 pole)

- Note)
- Applicable, only for displacement transducer input and displacement vibration measurement.
  - Basically, phase marker signal are required. When no phase marker signal is input, rise time speed may be deteriorate at normal speed range.
  - Standard high-pass filter (4 pole, 2 pole) cannot be selected.  
(See "Vibration (Over All) Monitoring (Selection Table for Filter Set Value P.6, 7".)

VIBRATION (OVER ALL) MONITORING

- Sequence function : Used to prevent alarm output that is caused by excessive vibration during machine startup. Block off the DANGER/ALERT alarm, or switch the alarm setup value to another number magnified by setup number.  
Sequence Setup :Block off  
1 to 10 (0.1 step, field changeable)

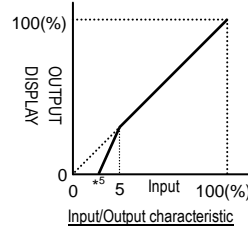


WARNING

In case the SEQ. magnification number is setup from 2 to 10, the alarm setup value magnified by setup number while the SEQ. circuit is in progress should stay at or lower than 110% of the maximum monitor range. If the number is more than 110% of the monitor range the alarm may not output.

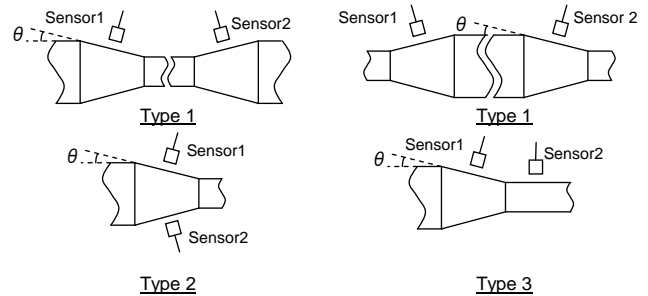
Suppression function

- If the vibration value is less than the setup value, this function is forced to suppress the measured vibration value and recorder output.  
\*5 Suppression Setup Value: 0 to 5%  
(0.1% step, field changeable)



DISPLACEMENT MONITORING

- Accuracy :  $\pm 1\%$  of F.S. at 25°C  
 $\pm 2\%$  of F.S. at 0°C to 65°C
- Frequency response : Approx. 0.5Hz (-3dB)
- Zero shift function : -50 to +50% of monitor range
- Lamp angle ( $\theta$ ) : 4 to 90 degree



- Operation function : Addition/Subtraction  
Ch1 + Ch2, Ch2 + Ch3, Ch3 + Ch4  
Ch1 - Ch2, Ch2 - Ch3, Ch3 - Ch4

Note)

- When this monitor is used for intrinsically safe explosion proof construction, the OK alarm set point may fall within the range, depending on the input transducer and the specified monitoring range.

ANALYSIS FUNCTION (When "/>

- Amplitude accuracy : Overall 0.5X, 1X, 2X, nX (n=0.01 to 10.00), Not-1X  
 $\pm 3\%$  of F.S. at 25°C  
 $\pm 5\%$  of F.S. at 0°C to 65°C  
(for machine speed less than 30000 r/min)  
 $S_{(p-p) \max}$  :  $\pm 5\%$  of F.S. at 25°C  
 $\pm 7\%$  of F.S. at 0°C to 65°C
- Phase accuracy : 0.5X, 1X, 2X :  $\pm 3$  deg of rdg. at 25°C  
 $\pm 6$  deg of rdg. at 0°C to 65°C

Specification

ENVIRONMENTAL CONDITION

Operating temperature: 0 to +65°C  
Storage temperature: -30 to +85°C  
Relative humidity : 20 to 95%RH (non-condensing)

POWER CONSUMPTION

Module : Less than 15W

MATERIAL AND FINISH

Face plate : ABS (Black)  
Sheet : Polyester tough top (Gray)  
Base plate : Aluminium alloy (Silver)

MASS

Body : Max. 1.0kg (2.2lb)

ACCESSORY SPECIFICATION CODE/IDENTIFIED BY TB□

Code	Accessory	Quantity (Part Code)
/TB1	Transducer input terminal block plug (15pin) FRONT-MC-1.5/15-STF-3.81 (PHOENIX CONTACT)	2pieces <sup>7</sup> (7072NAB)
	Recorder output terminal block plug (6pin) FRONT-MC-1.5/6-STF-3.81 (PHOENIX CONTACT)	2pieces <sup>7</sup> (7072NAC)
	Contact output terminal block plug (18pin) FRONT-MC-1.5/18-STF-3.81 (PHOENIX CONTACT)	1piece (7072NAA)
/TB2	Contact output terminal block plug (18pin) FRONT-MC-1.5/18-STF-3.81 (PHOENIX CONTACT)	1piece (7072NAA)

Note) \*6 D-sub plugs and hoods are not included in this code. Please make necessary arrangement separately, if required.

\*7 When individually ordering specify the parts code, it is require to arrange for a necessary amount.

**WARNING**  
Some functions may not be available with old version.  
For details, please refer to "infiSYS Family Improvement Information" (6H16-011).

Default Value

INPUT (VIBRATION/DISPLACEMENT)

Monitoring : Vibration monitor (Displacement vibration input)  
Monitor range : 0 to 100µm p-p  
Input transducer : FK-202F (non-intrinsic safety)  
Input points : 4points  
Input impedance : 50kΩ

INPUT (PHASE MARKER) (When "/PM1" is requested)

Input transducer : RD-05A  
Pulse polarity : Positive  
Hysteresis set value : 1V  
Trigger level : -18V

RECTIFICATION

Rectification : Root Mean Square (RMS)

FILTERING

Low cut-off frequency : 5Hz (4 pole)  
High cut-off frequency : 4kHz

ALARM

DANGER set point : 80µm  
ALERT set point : 60µm  
OK set point (Vibration/Displacement)  
: -1.4V (Low), -18.8V (High)  
OK set point (Phase Marker) (When "/PM1" is requested)  
: -1.4V (Low)  
Alarm delay time : 3sec (DANGER, ALERT)  
Alarm reset : AUTO-RESET

RECORDER OUTPUT

Output range : 4 to 20mA (4mA at the burnout)

CONTACT OUTPUT

Contact (RELAY1) : OR logic (DANGER-1 / DANGER-2)  
Contact (RELAY2) : OR logic (ALERT-1 / ALERT-2)  
Contact (RELAY3) : OR logic (NOT-OK-1 / NOT-OK-2)  
Contact (RELAY4) : OR logic (DANGER-3 / DANGER-4)  
Contact (RELAY5) : OR logic (ALERT-3 / ALERT-4)  
Contact (RELAY6) : OR logic (NOT-OK-3 / NOT-OK-4)  
Energization method : Normally de-energized

OTHERS

Sequence set value : 1  
Suppression set value : 0%  
First out : OFF  
Timed OK channel defeat : ON  
Burnout : Downscale 0%

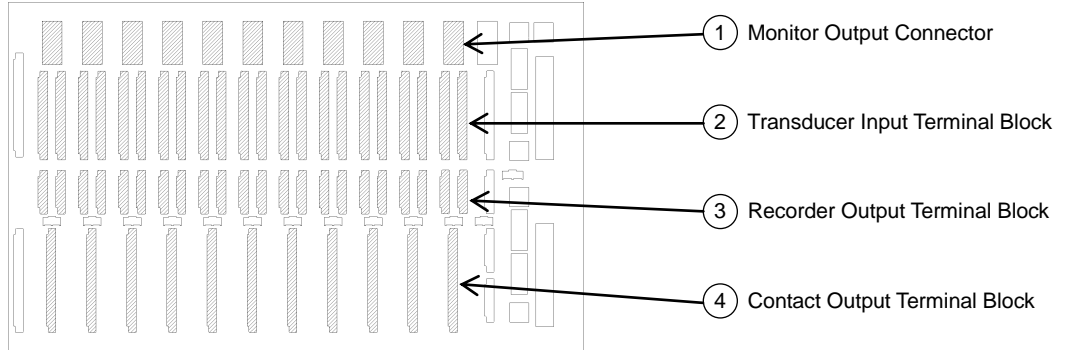
OTHERS

Alarm Contact Operation

Contact type	Energization method	Power OFF	Power ON	
			Normal state	Alarm state
N.O. contact	NORMALLY DE-ENERGIZED	OPEN	OPEN	CLOSE
	NORMALLY ENERGIZED	OPEN	CLOSE	OPEN
N.C. contact	NORMALLY DE-ENERGIZED	CLOSE	CLOSE	OPEN
	NORMALLY ENERGIZED	CLOSE	OPEN	CLOSE

Plug/ Terminal Block (Connector) Pin Assignment

VM-701B Instrument Rack  
(Back)



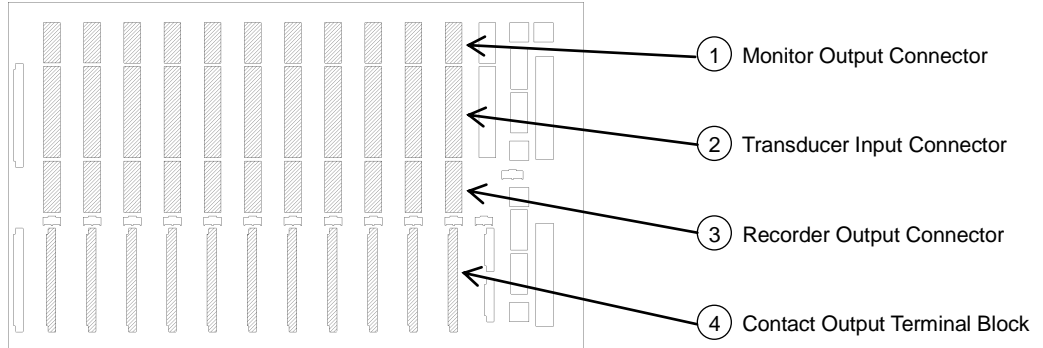
	Back of Instrument Rack	Plug/Terminal Block (Connector) Pin Assignment	Fitting Plug	Part Code																																																												
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Note1) For the accessory specification code "/TB1", the fitting terminal block plugs ②③④ are included.  
For the accessory specification code "/TB1", the D-sub plug and hood ① are not included. If required,  
please make necessary arrangement separately referring to the part code above.

Note2) When individually ordering specify the parts code, it is require to arrange for a necessary amount.

Plug/ Terminal Block (Connector) Pin Assignment

VM-762B Instrument Rack  
(Back)



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Note) For the accessory specification code "/TB2", the fitting terminal block plug ④ is included.  
For the accessory specification code "/TB2", the D-sub plugs and hoods ①②③ are not included.  
If required, please make necessary arrangement separately referring to the part code above.

Vibration (Over All) Monitoring (Selection Table for Filter Set Value)

Root Mean Square (RMS)

(O:YES x:NO)

		HPF <4 pole>													
		2Hz	5Hz	10Hz	20Hz	25Hz	30Hz	40Hz	50Hz	60Hz	100Hz	300Hz	500Hz	1000Hz	
LPF	200Hz	O	O	O	O	x	x	x	x	x	x	x	x	x	
	300Hz	O	O	O	O	O	O	x	x	x	x	x	x	x	
	400Hz	O	O	O	O	O	O	O	x	x	x	x	x	x	
	500Hz	O	O	O	O	O	O	O	O	x	x	x	x	x	
	600Hz	O	O	O	O	O	O	O	O	O	x	x	x	x	
	800Hz	O	O	O	O	O	O	O	O	O	x	x	x	x	
	1000Hz	O	O	O	O	O	O	O	O	O	O	x	x	x	
	2000Hz	x	O	O	O	O	O	O	O	O	O	O	x	x	x
	3000Hz	x	O	O	O	O	O	O	O	O	O	O	O	x	x
	4000Hz	x	O	O	O	O	O	O	O	O	O	O	O	x	x
	5000Hz	x	O	O	O	O	O	O	O	O	O	O	O	O	x
	6000Hz	x	x	O	O	O	O	O	O	O	O	O	O	O	x
	8000Hz	x	x	O	O	O	O	O	O	O	O	O	O	O	x
	10000Hz	x	x	O	O	O	O	O	O	O	O	O	O	O	O

		HPF <10 pole>						
		9.5Hz	12Hz	14Hz	15Hz	40Hz	60Hz	100Hz
LPF	200Hz	O	O	O	O	x	x	x
	300Hz	O	O	O	O	x	x	x
	400Hz	O	O	O	O	O	x	x
	500Hz	O	O	O	O	O	x	x
	600Hz	O	O	O	O	O	O	x
	800Hz	O	O	O	O	O	O	x
	1000Hz	O	O	O	O	O	O	O
	2000Hz	O	O	O	O	O	O	O
	3000Hz	O	O	O	O	O	O	O
	4000Hz	O	O	O	O	O	O	O
	5000Hz	O	O	O	O	O	O	O
	6000Hz	x	x	O	O	O	O	O
	8000Hz	x	x	O	O	O	O	O
	10000Hz	x	x	O	O	O	O	O

OTHERS

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Vibration (Over All) Monitoring (Selection Table for Filter Set Value)

Peak-to-Peak (p-p)

(O:YES x:NO)

		HPF <2 pole>										
		2Hz	5Hz	10Hz	20Hz	25Hz	30Hz	40Hz	50Hz	60Hz	100Hz	
LPF	500Hz	O	O	O	O	O	O	O	O	O	x	x
	600Hz	O	O	O	O	O	O	O	O	O	O	x
	800Hz	O	O	O	O	O	O	O	O	O	O	x
	1000Hz	O	O	O	O	O	O	O	O	O	O	O

		HPF <10 pole>						
		9.5Hz	12Hz	14Hz	15Hz	40Hz	60Hz	100Hz
LPF	500Hz	O	O	O	O	O	x	x
	600Hz	O	O	O	O	O	O	x
	800Hz	O	O	O	O	O	O	x
	1000Hz	O	O	O	O	O	O	O

Peak-to-Peak (p-p) rectification for low speed

		HPF <1 pole>
		0.2Hz
LPF	500Hz	O
	600Hz	O
	800Hz	O
	1000Hz	O

		HPF <10 pole>						
		9.5Hz	12Hz	14Hz	15Hz	40Hz	60Hz	100Hz
LPF	500Hz	O	O	O	O	O	x	x
	600Hz	O	O	O	O	O	O	x
	800Hz	O	O	O	O	O	O	x
	1000Hz	O	O	O	O	O	O	O

OTHERS

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