

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

VM-702B /ALY /NB1 /CS1 /CS2 /TRP /TB

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

Specification

INPUT

Input system : 2systems
Input system Channel combination : A: Ch1, Ch2 B: Ch3, Ch4
Input impedance : Approx. 50kΩ

INPUT TRANSDUCER

Ch1 : VK-202A or FK-202F
Ch2 : CV-86 or CV-88
Ch3 : VK-202A or FK-202F
Ch4 : CV-86 or CV-88

SYNCHRONIZED SIGNAL SOURCE

VM-741B : Input via internal mother board.

OUTPUT

Indicators : OK LED (Green)
When channel is normal : ON, When alarming : Flashing
Monitor output : Location : BNC (Front) and connector (Back)
Ch1 or Ch3 : BUFF*1
Ch2 or Ch4 : BUFF, SEIS, ABS can be selected.*1
Output impedance : 100Ω
Output current : Max 5mA

Combination	Measurement value	
	Ch1, Ch3	Ch2, Ch4
1	REL*1	ABS*1
2	REL*1	SEIS*1
3	SEIS*1	ABS*1

*1 BUFF : Buffer signal
Input signal from a transducer is output via buffer amplifier.
REL : Relative vibration
SEIS : Seismic vibration
The signal is converted from velocity signal to displacement signal. (787mV/100μm)
ABS : Absolute vibration
The signal is subtracted SEIS (Seismic vibration) on Ch2 or Ch4 from the input signal on Ch1 or Ch3 (Relative vibration). (787mV/100μm)
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 : ±3% of F.S. at 25°C*2
±5% of F.S. at 0°C to 65°C*2
Max. load resistance : 600Ω (current mode)
Output impedance : Approx. 500Ω (voltage mode)
Insulation resistance : 10MΩ at 100VDC
Burnout function : Downscale 0%
Downscale 0mA / 0mV

Transducer power supply
Proximity transducer : -24VDC/25mA Max.
Piezoelectric transducer : +24VDC/4mA (constant current)
Contact output : Number of relay : 6points (logic changeable)
Contact type : Dry contact (SPDT)
Enagization method : Normally de-energized or Normally energized field changeable
Contact capacity : 250VAC/5A, 30VDC/5A

OUTPUT

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_{p-p} max)
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.

*2 At calibrate frequency.

ALARM

Alarm set point : Vibration monitoring
2 points (DANGER, ALERT), from 0 to 100% of monitor range, field changeable
Alarm set accuracy : Vibration
±(0.2% of F.S.+1 digit) or less at 25°C
Alarm set repeatability : ±1digit 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

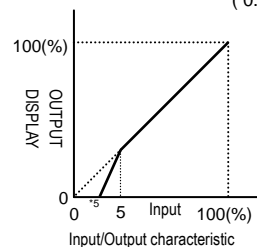
Recommend monitoring range : 100 to 1000μm
Accuracy : ±2% of F.S. at 25°C*3
±3% of F.S. at 0°C to 65°C*3
HPF : 10Hz to 100Hz (-3dB), field changeable.*4(4 pole)
9.5Hz to 100Hz (-3dB), field changeable.*4(10 pole)
LPF : 200Hz to 1kHz (-3dB), field changeable.*4(4 pole)
Note)*3 At calibrate frequency.
*4 There is un-match combination.
(See "Vibration (Over All) Monitoring (Selection Table for Filter Set Value P.5)")
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)



Specification

ANALYSIS FUNCTION (When "/b>

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

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 *7 (7072NAB)
	Recorder output terminal block plug(6pin) FRONT-MC-1.5/6-STF-3.81 (PHOENIX CONTACT)	2pieces *7 (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

Monitor range : Ch1 0 to 200µm pk-pk (REL)
Ch2 0 to 200µm pk-pk (ABS)
Ch3 0 to 200µm pk-pk (REL)
Ch4 0 to 200µm pk-pk (ABS)
Input transducer : VK-202A (non-intrinsic safety)
CV-86 (non-intrinsic safety)
Input system : 2systems
Input impedance : 50kΩ

FILTERING

Low cut-off frequency : 10Hz (4 pole)
High cut-off frequency : 1kHz

OUTPUT

Recorder output : 4 to 20mA (4mA at the burnout)
Monitor output : Ch1 BUFF
Ch2 BUFF
Ch3 BUFF
Ch4 BUFF

ALARM

DANGER set point : 160µm
ALERT set point : 120µm
OK set point : Ch1 and Ch3 -1.4V (Low), -18.8V (High)
Ch2 and Ch4 2.1V (Low), 22.0V (High)
Alarm delay time : 3sec (DANGER, ALERT)
Alarm reset : AUTO-RESET

CONTACT OUTPUT

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

OTHERS

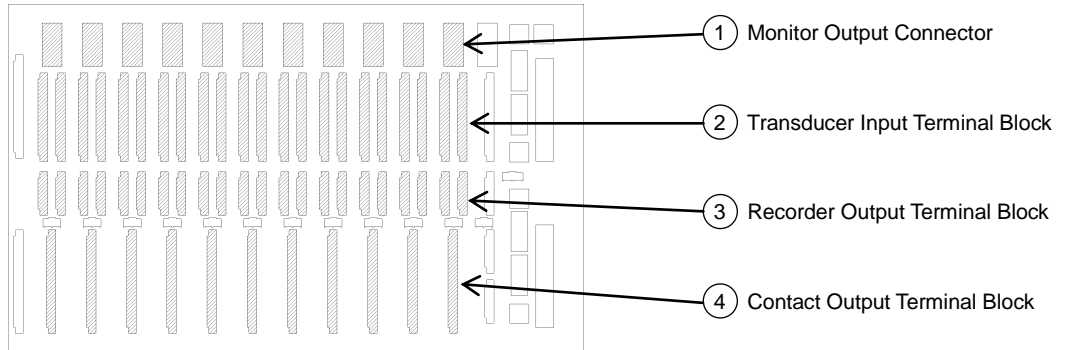
Sequence set value : 1
Suppression set value : 0%
First out : OFF
Timed OK channel defeat : ON
Burnout : Downscale 0%

Alarm Contact Operation

Contact type	Enagization 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-761B Instrument Rack
(Back)



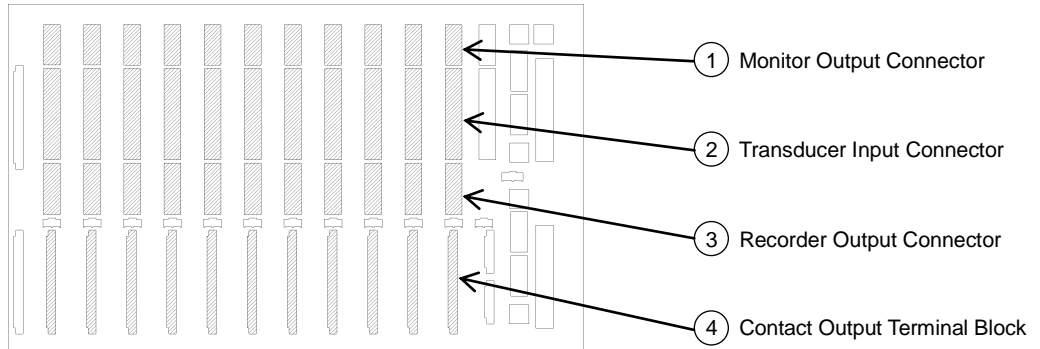
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Note1) For the accessory specification code "/TB1", the fitting terminal block plugs ② ③ ④ are included. For the accessory specification code "/TB1", the D-sub plug and hood ① are not included. If required, please make necessary arrangement separately 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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C6	REC3 -	C14	N/A																																																																													
C7	N/A	C15	N/A																																																																													
C8	N/A																																																																															
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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)

(O:YES x:NO)

		HPF <4 pole>							
		10Hz	20Hz	25Hz	30Hz	40Hz	50Hz	60Hz	100Hz
L.P.F	200Hz	○	○	×	×	×	×	×	×
	300Hz	○	○	○	○	×	×	×	×
	400Hz	○	○	○	○	○	×	×	×
	500Hz	○	○	○	○	○	○	×	×
	600Hz	○	○	○	○	○	○	○	×
	800Hz	○	○	○	○	○	○	○	×
	1000Hz	○	○	○	○	○	○	○	○

		HPF <10 pole>						
		9.5Hz	12Hz	14Hz	15Hz	40Hz	60Hz	100Hz
L.P.F	200Hz	○	○	○	○	×	×	×
	300Hz	○	○	○	○	×	×	×
	400Hz	○	○	○	○	○	×	×
	500Hz	○	○	○	○	○	×	×
	600Hz	○	○	○	○	○	○	×
	800Hz	○	○	○	○	○	○	×
	1000Hz	○	○	○	○	○	○	○

OTHERS
