

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

VM-707B /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 set up	Custom set up (When "ALY" is requested)		1 VM-761B instrument rack 2 VM-762B instrument rack

Specification

INPUT (VIBRATION/DISPLACEMENT)

Input points : 4points
Input impedance : Approx. 50kΩ
Measurable range : -20V~+20V

INPUT TRANSDUCER (VIBRATION/DISPLACEMENT)

Velocity vibration input : CV-88, CV-87, CV-86, Other velocity sensor
Acceleration vibration input : CA-302, CA-72, Other acceleration sensor

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 : Input signal is output via buffer amplifier.
Location : BNC (Front) and connector (Back)
Output impedance : Approx. 100Ω (Max.5mA)

Recorder output : Voltage or current output proportional to measurement value.

Number of output points : 4 points.
Output range : 1 to 5V, 4 to 20mA,
0 to 5V, 0 to 10V
(Overall monitoring, Band-pass vibration monitoring)
I/O conversion accuracy : ±1% of F.S. at 25°C*1
±2% of F.S. at 0°C to 65°C *1
(1X vibration tracking monitoring)
I/O conversion accuracy : ±3% of F.S. at 25°C*1
±5% of F.S. at 0°C to 65°C *1
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 :
: +24VDC±10% / 4mA (constant current)
: -24VDC±10% / 25mA Max. *2

Note) *2 3 wire Velocity / Acceleration transducer power supply

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
Dynamic data : Synchronous waveform, Asynchronous waveform
Static data : Amplitude (1X, 2X, nX (n=0.01 to 8.00),
Rotation speed
Refer to the specification sheet of
VM-773B infiSYS ANALYSIS VIEW.

Note) *1 At calibrate frequency.

ALARM

Alarm set point : 2 points (DANGER-A, ALERT-A, DANGER-B,
ALERT-B), from 0 to 100% of monitor range, field
changeable
Alarm set accuracy : ±(0.2% of F.S.+1digit) 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)

OTHERS

Each channel is set for two out of three measurements (Overall monitoring,
Band-pass vibration monitoring, 1X vibration tracking monitoring) as Measure-A
and Measure-B, respectively.

The Measure-A is used for the recorder output.

VIBRATION (OVER ALL) MONITORING

Measurement : Overall monitoring
Band-pass vibration monitoring
1X vibration tracking monitoring
Rectification : Root Mean Square (RMS)
Recommend monitoring range : 10 to 1000m/s², 10 to 175mm/s, 100 to 1000μm

Note)
· Monitoring range is the same value for each channel.

Overall monitoring

Accuracy : ±1% of F.S. at 25°C*3
±2% of F.S. at 0°C to 65°C*3
HPF : 10Hz (-3dB) (4 pole)
LPF : 10Hz (-3dB) (4 pole)

Band-pass vibration monitoring

Accuracy : ±1% of F.S. at 25°C*3
±2% of F.S. at 0°C to 65°C*3
HPF : 25Hz to 100Hz (-3dB)**4 (10 pole)
LPF : 100Hz to 5.5kHz (-3dB)**4 (10 pole)

Note) *3 At calibrate frequency.

*4 There is un-match combination.

(See "Vibration Monitoring (Selection Table for Filter Set Value P.5".)

1X vibration tracking monitoring

Accuracy : ±3% of F.S. at 25°C
±5% of F.S. at 0°C to 65°C

Q : 22
Filter property: 2 pole
Rotation speed

: 600rpm to 60000rpm, (The sampling count per cycle:32)
600rpm to 48000rpm, (The sampling count per cycle:64)
600rpm to 24000rpm, (The sampling count per cycle:128)

Max. sweep rotation speed

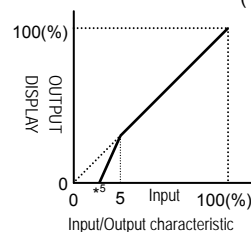
: 1000rpm/min

Sequence function : Used to prevent alarm output that is caused by
excessive vibration during machine startup. Block off the
DANGER-A/ALERT-A/DANGER-B/ALERT-B 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

Amplitude accuracy : Overall 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 30000 r/min)

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 (VIBRATION)

Monitoring : Vibration monitor (Displacement vibration input)
 Monitor range : 0 to 50m/s²
 Input transducer : CA-302 (non-intrinsic safety)
 Input points : 4points
 Input impedance : 50kΩ

MEASUREMENT

Measurement : Measure-A: Overall monitoring
 Measure-B: 1X vibration tracking monitoring

ALARM

DANGER-A set point : 40m/s2
 ALERT-A set point : 30m/s2
 DANGER-B set point : 40m/s2
 ALERT-B set point : 30m/s2
 OK set point (Vibration)
 : 2.1V (Low), 22V (High)
 Alarm delay time : 3sec (DANGER-A, ALERT-A, DANGER-B, ALERT-B)
 Alarm reset : AUTO-RESET

RECORDER OUTPUT

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

CONTACT OUTPUT^{*8}

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

Note) *8 DANGER-A(Ch.*) and DANGER-B(Ch.*) are or and output as DANGER-*.
 (The asterisk "*" represents the channel number.)
 ALERT-A(Ch.*) and ALERT-B(Ch.*) are or and output as ALERT-*.
 (The asterisk "*" represents the channel number.)

OTHERS

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

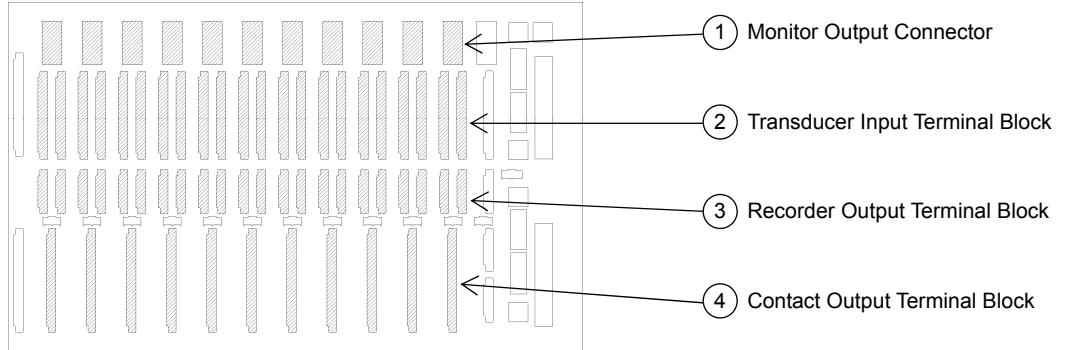
OTHERS

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-761B Instrument Rack
(Back)



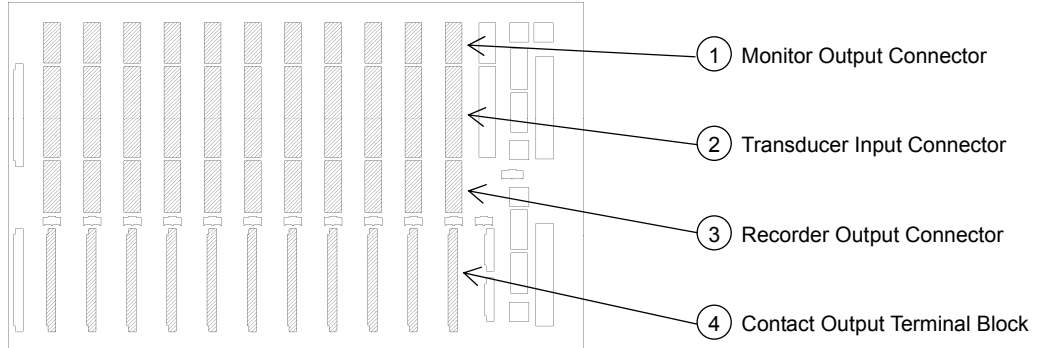
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Note1) For the accessory specification code "/TB1", the fitting terminal block plugs ②③④ are included.
For the accessory specification code "/TB1", the D-sub plug and hood ① are not included. If required,
please make necessary arrangement separately 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.

