

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	CSA C/US: Class I, Division 2, Groups A,B,C and D	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

Measurement value :

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<sub>(p-p)</sub> 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.+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)

#### VIBRATION (OVER ALL) MONITORING

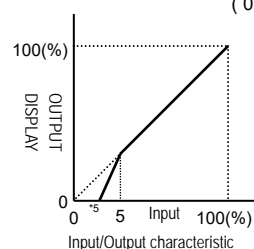
Recommend monitoring range : 100 to 1000μm  
Accuracy : ±2% of F.S. at 25°C \*3  
±3% of F.S. at 0°C to 65°C \*3  
HPF : 10Hz to 100Hz (-3dB), field changeable. \*\* (4 pole)  
9.5Hz to 100Hz (-3dB), field changeable. \*\* (10 pole)  
LPF : 200Hz to 1kHz (-3dB), field changeable. \*\* (4 pole)  
Note) \*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.

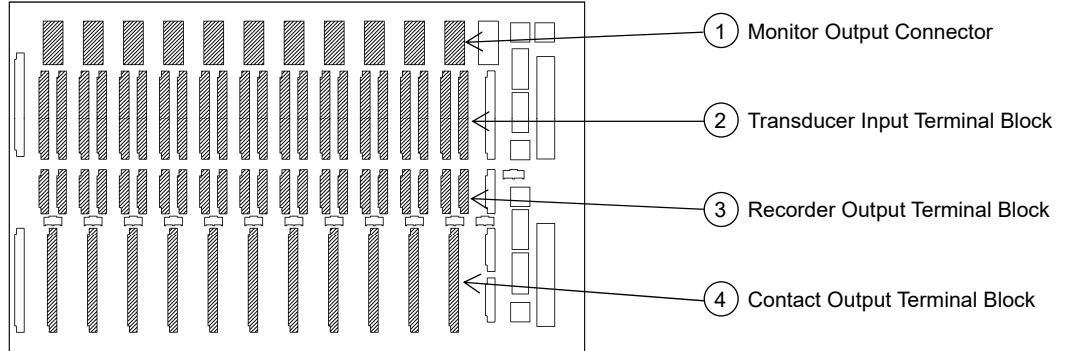
Suppression function : If the vibration value is less than the setup value, this function is forced to suppress the measured vibration value and recorder output.  
\*5 Suppression Setup Value: 0 to 5%  
(0.1% step, field changeable)





Plug/ Terminal Block (Connector) Pin Assignment

VM-761B Instrument Rack  
(Back)



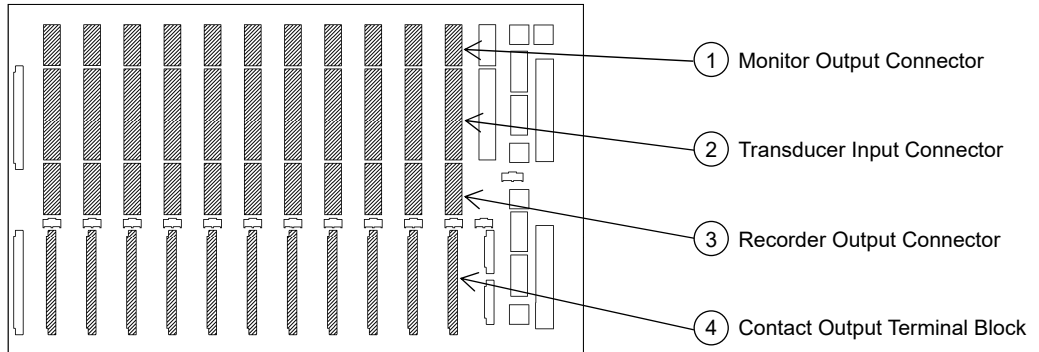
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Note1) For the accessory specification code "/TB1", the fitting terminal block plugs ② ③ ④ are included.  
For the accessory specification code "/TB1", the D-sub plug and hood ① are not included. If required,  
please make necessary arrangement separately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

