

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

VM-703B /NB1 /CS1 /TRP /TB

Non-incendive *1		Monitor Function	Tropical spec.	I/O terminal block for	
1	Class 1 Division 2 CSA	Custom set up		1	VM-761B instrument rack
				2	VM-762B instrument rack

*1 In future

Specification

INPUT

Input points (tachometer) : 2 points
 Input points (eccentricity) : 1 point
 Input impedance : Approx. 50k Ω
 (Magnetic pickup input : Approx. 5k Ω)
 Max input voltage range : 100Vp-p
 Hysteresis set value : 1V, 2V, 5V

INPUT TRANSDUCER for TACHOMETER (Only Channel 1 and Channel 2)

Proximity transducer : FK-202F, RD-05A
 Magnetic pickup : MS-160, MS-240
 Input channel : Ch1, Ch2

INPUT TRANSDUCER for ECCENTRICITY (Only Channel 3)

Proximity transducer : FK-202F, VK-202A, VK-202P, VK-302P
 VC-020
 Input channel : Ch3

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 a buffer amplifier.
 Location : Front side BNC and Rear side connector
 Output impedance : Approx. 100 Ω (Max. 0.5mA)

Pulse output : Shaped pulse signal is output via a buffer amplifier.
 Location : Front side BNC and Rear side connector
 Output impedance : Approx. 1k Ω (Max. 0.5mA)
 Signal level : 0V (V_{OL}), 5V (V_{OH})

Recorder output : Voltage or current output proportional monitor range.
 Output range : 1 to 5V, 4 to 20mA, 0 to 5V, 0 to 10V
 I/O conversion accuracy: $\pm 1\%$ of F.S. at 25 $^{\circ}$ C*2
 $\pm 2\%$ of F.S. at 0 $^{\circ}$ C to 65 $^{\circ}$ C*2
 Max. load resistance : 600 Ω (current mode)
 Output impedance : Approx. 500 Ω (voltage mode)
 Insulation resistance : 10M Ω at 100VDC
 Burnout function : Downscale 0%
 Downscale 0mA / 0mV

Transducer power supply:
 Proximity transducer : -24VDC $\pm 10\%$ / 25mA Max.

Alarm contact :
 Number of relay : 6 points (logic changeable)
 Contact type : Dry contact (SPDT)
 Contact capacity : 250VAC / 5A, 30VDC / 5A

Note) *2 At calibrate frequency.(only Eccentricity)

SPEED RELAY (Only Channel 1 and Channel 2)

Speed relay set point : 4 points (HH, H, L, LL), from 0.1rpm to 100% of monitor range, field changeable.
 Speed relay hysteresis : 0 to 100 rpm (1 rpm step, field changeable)
 Speed relay mode : Over speed / Under speed
 Speed relay set accuracy : ± 1 digit or less (on digital indicator)
 Relay reset : AUTO-RESET or SELF-HOLD field changeable.
 Relay contact mode : Normally de-energized / Normally energized

ALARM (Only Channel 3)

Alarm set point : Eccentricity (P-P) monitoring
 2 points (DANGER, ALERT),
 from 0 to 100% of monitor range, field changeable
 Eccentricity (Direct) monitoring
 4 points
 (H-DANGER, H-ALERT, L-DANGER, L-ALERT),
 from -50 to +50% of monitor range, field changeable

Alarm set accuracy : $\pm (0.2\%$ of F.S. +1digit) or less at 25 $^{\circ}$ C
 Alarm set repeat : ± 1 digit or less at 25 $^{\circ}$ C
 Alarm delay time : 0 to 99 sec (0.1 sec step, field changeable)
 Alarm reset : AUTO-RESET or SELF-HOLD field changeable.
 Alarm contact mode : Normally de-energized / Normally energized
 Alarm bypass function : Block off alarm output (DANGER)

TACHOMETER

Min. pulse width : 50 μ sec
 Min. measured frequency : 0.01Hz
 Max. measured frequency: 10 kHz
 Input voltage : Less than 100V p-p

ROTOR SPEED MONITORING

Accuracy : $\pm (0.003\%$ of rdg. +1digit) at 25 $^{\circ}$ C
 $\pm (0.03\%$ of rdg. +1digit) at 0 $^{\circ}$ C to 65 $^{\circ}$ C
 Min. indicated frequent : Lower of 1Hz or under speed setting.
 No. of input pulse : 1 to 200 pulse / rev.

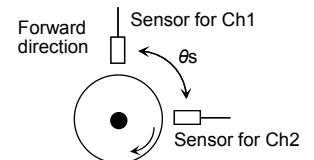
ROTOR ACCELERATION MONITORING

Accuracy : ± 20 digit at 0 to 65 $^{\circ}$ C
 No. of input pulse : 1 to 200 pulse / rev.
 (60 or 120 pulse / rev. is recommended.)

REVERSE ROTATING MONITORING

Accuracy : $\pm (0.003\%$ of rdg. +1digit) at 25 $^{\circ}$ C
 $\pm (0.03\%$ of rdg. +1digit) at 0 $^{\circ}$ C to 65 $^{\circ}$ C
 Min. indicated frequent : Lower of 1Hz or under speed setting.
 No. of input pulse : 1 to 60 pulse / rev.

Note)
 The angle between the sensors shall be as follows :
 $\theta_s = (90 + 360n) / Z$
 [n=0,1,2,3... Z:Numbers of the teeth]
 θ_s is recommended to be within 90 to 270 $^{\circ}$ and to satisfy the above equation.



ECCENTRICITY MONITORING

Phase marker : Selection from three kinds
 Ch1 input,
 Phase marker 1 (from VM-741B Phase marker)
 Phase marker 2 (from VM-741B Phase marker)

P-P Monitoring : Accuracy : $\pm 1\%$ of F.S. at 25 $^{\circ}$ C*2
 $\pm 2\%$ of F.S. at 0 $^{\circ}$ C to 65 $^{\circ}$ C*2
 Measure range : 1 to 300rpm, 1 to 600rpm
 Output channel : Ch3

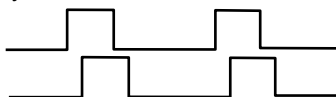
Direct Monitoring : Accuracy : $\pm 1\%$ of F.S. at 25 $^{\circ}$ C
 $\pm 2\%$ of F.S. at 0 $^{\circ}$ C to 65 $^{\circ}$ C
 Measure range : 1Hz or less.
 Zero shift function : -50 to +50% of the monitor range.
 Output channel : Ch4

Note) *2 At calibrate frequency.

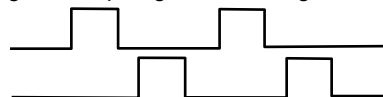
Number of Teeth and Setting Angle θ_s

Number of teeth	Setting Angle θ_s (deg.)								Setting accuracy (deg.)
1	90.0	-----	-----	-----	-----	-----	-----	-----	±30.0
2	225.0	-----	-----	-----	-----	-----	-----	-----	±15.0
3	150.0	270.0	-----	-----	-----	-----	-----	-----	±10.0
4	112.5	202.5	-----	-----	-----	-----	-----	-----	± 7.5
5	90.0	162.0	234.0	-----	-----	-----	-----	-----	± 6.0
6	135.0	195.0	255.0	-----	-----	-----	-----	-----	± 5.0
7	115.7	167.1	218.6	270.0	-----	-----	-----	-----	± 4.3
8	101.3	146.3	191.3	236.3	-----	-----	-----	-----	± 3.8
9	90.0	130.0	170.0	210.0	250.0	-----	-----	-----	± 3.3
10	117.0	153.0	189.0	225.0	261.0	-----	-----	-----	± 3.0
11	106.4	139.1	171.8	204.5	237.3	270.0	-----	-----	± 2.7
12	97.5	127.5	157.5	187.5	217.5	247.5	-----	-----	± 2.5
13	90.0	117.7	145.4	173.1	200.8	228.5	256.2	-----	± 2.3
14	109.3	135.0	160.7	186.4	212.1	237.9	263.6	-----	± 2.1
15	102.0	126.0	150.0	174.0	198.0	222.0	246.0	270.0	± 2.0
16	95.6	118.1	140.6	163.1	185.6	208.1	230.6	253.1	± 1.9
20	94.5	112.5	130.5	148.5	166.5	184.5	202.5	220.5	± 1.5
	238.5	256.5	-----	-----	-----	-----	-----	-----	
30	99.0	111.0	123.0	135.0	147.0	159.0	171.0	183.0	± 1.0
	195.0	207.0	219.0	231.0	243.0	255.0	267.0	-----	
36	92.5	102.5	112.5	122.5	132.5	142.5	152.5	162.5	± 0.8
	172.5	+10.0 step						262.5	
40	92.3	101.3	110.3	119.3	128.3	137.3	146.3	155.3	± 0.8
	164.3	+9.0 step						263.3	
60	91.5	97.5	103.5	109.5	115.5	121.5	127.5	133.5	± 0.5
	139.5	+6.0 step						265.5	

- Note) *3 The above setting angle θ_s is selected to satisfy $\theta_s=(90+360n)/Z$ and to be within $90 \leq \theta_s \leq 270$.
 *4 The setting accuracy of the setting angle θ_s shall be $\pm 30.0/Z$.
 *5 For gears not listed in the table above, calculate the setting angle referring to *3, *4.
 *6 The pulses of both channels inputted should be overlapped to judge the direction of the rotation. Especially, when the number of the teeth is small or an irregular shaped gear is used, great caution is necessary.



Acceptable



Not Acceptable

Specification

ENVIRONMENTAL CONDITION

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

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)	1piece (7072NAB)
	Recorder output terminal block plug (6pin) FRONT-MC-1.5/6-STF-3.81 (PHOENIX CONTACT)	2pieces *8 (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) *7 D-sub plugs and hoods are not included in this code. Please make necessary arrangement separately, if required.

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

Default Value

INPUT (Tachometer)

Monitoring : Tachometer
 Monitor range : 0 to 5000rpm
 Input sensor : FK-202F (non-intrinsic safety)
 Input points : 2 points
 Input impedance : 50kΩ
 Input pulsepoints : 60 pulse/rev
 Input speed / indicated speed changed ratio : 1

INPUT (Eccentricity P-P)

Monitor range : 0 to 100μm
 Input sensor : FK-202F (non-intrinsic safety)
 Input impedance : 50kΩ
 Measure range : 1 to 600rpm
 Phase marker : Ch1 (this module)

INPUT (Eccentricity Direct)

Monitor range : -50 to +50μm
 Polarity : Direct

WAVE SHAPE (Tachometer)

Trigger mode : AUTO
 Hysteresis set value : 1V

PULSEOUTPUT (Tachometer)

Output channel : Ch1

SPEED RELAY SET (Tachometer)

HH set point : 3600rpm (Over speed)
 H set point : 3000rpm (Over speed)
 L set point : 10rpm (Under speed)
 LL set point : 10rpm (Under speed)
 Speed relay hysteresis : 10rpm
 Reset : AUTO-RESET

OK ALARM (Tachometer)

OK set point : -1.4V (Low)
 Reset : AUTO-RESET

OK ALARM (Eccentricity)

OK set point : -1.4V (Low), -18.8V (High)
 Reset : AUTO-RESET

ALARM (Eccentricity P-P)

DANGER set point : 80μm
 ALERT set point : 60μm
 Alarm delay time : 3sec (DANGER, ALERT)
 Alarm reset : AUTO-RESET

ALARM (Eccentricity Direct)

Set point : Not used

RECORDER OUTPUT

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

CONTACT

Contact (RELAY1) : HH-1 (tachometer)
 Contact (RELAY2) : H-1 (tachometer)
 Contact (RELAY3) : L-1 (tachometer)
 Contact (RELAY4) : LL-1 (tachometer)
 Contact (RELAY5) : DANGER-3 (Eccentricity P-P)
 Contact (RELAY6) : ALERT-3 (Eccentricity P-P)
 Contact mode : Normally de-energized

OTHERS

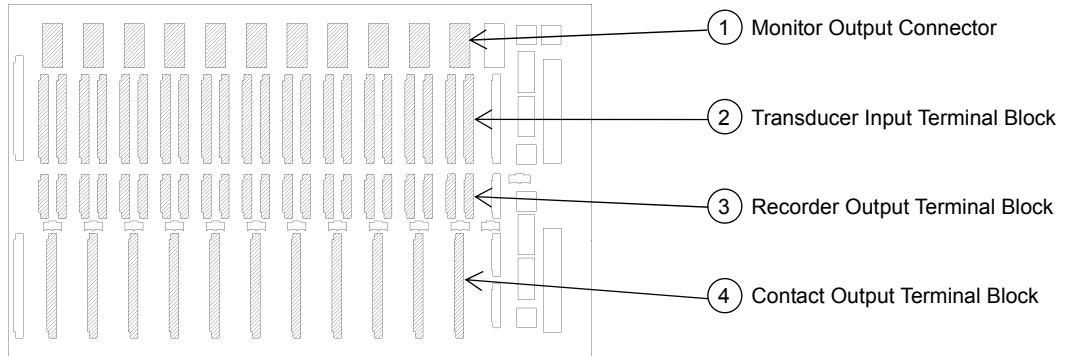
Suppression set value : 0% (Only eccentricity P-P)
 First out : OFF
 Timed OK channel defeat : ON
 Burnout : Downscale 0%

Alarm Contact Operation

Monitor alarm relay mode	Monitor power OFF	Monitor power ON	
		Normal state	Alarm state
NO contact (NORMALLY DE-ENERGIZED)	OPEN	OPEN	CLOSE
NO contact (NORMALLY ENERGIZED)	OPEN	CLOSE	OPEN
NC contact (NORMALLY DE-ENERGIZED)	CLOSE	CLOSE	OPEN
NC contact (NORMALLY ENERGIZED)	CLOSE	OPEN	CLOSE

Plug/ Terminal Block (Connector) Pin Assignment

VM-761B Instrument Rack
(Back)



	Back of Instrument Rack	Plug/ Terminal Block (Connector) Pin Assignment	Fitting Plug	Part Code																																																												
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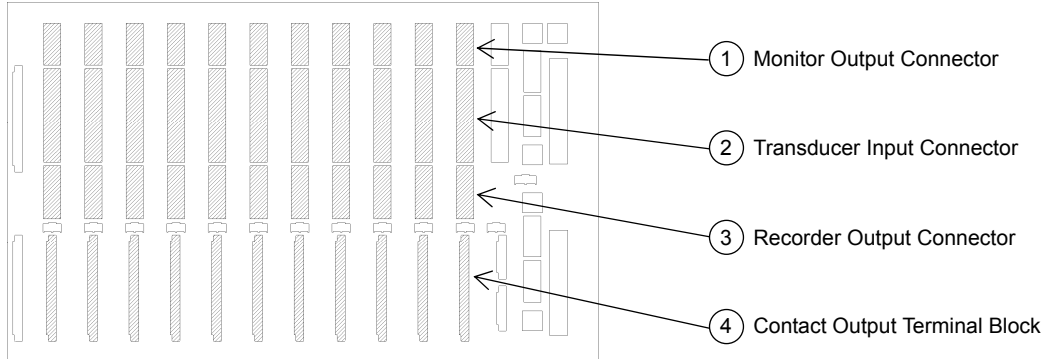
Note1) For the accessory specification code “/TB1”, the fitting terminal block plugs ② ③ ④ are included.

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
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A14	CH3 POW	A33	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 ① ② ③ are not included. If required, please make necessary arrangement separately referring to the part code above.