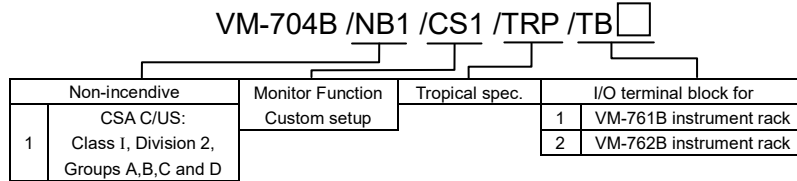


Model Code / Additional Spec. Code ( No entry if additional spec. code is not specified. )



### Specification

#### INPUT

Input points : 6 points  
 Input impedance : more than 1MΩ (Thermo-couple)  
 Input transducer : Thermo-couple (Type E, Type J, Type K, Type T)  
                           100Ω 3wireRTD (R100/R0 =1.3851)  
                           100Ω 4wireRTD (R100/R0 =1.3851)

#### MONITOR RANGE

Thermo-couple (Type E) : -200°C to 990°C  
 Thermo-couple (Type J) : -140°C to 1190°C  
 Thermo-couple (Type K) : -200°C to 1362°C  
 Thermo-couple (Type T) : -200°C to 390°C  
 100Ω RTD : -200°C to 850°C

#### MEASURE LIMIT

Thermo-couple (Type E) : -270°C to 1000°C  
 Thermo-couple (Type J) : -210°C to 1200°C  
 Thermo-couple (Type K) : -270°C to 1372°C  
 Thermo-couple (Type T) : -270°C to 400°C  
 100Ω RTD : -200°C to 850°C

#### COLD JUNCTION COMPENSATION SENSOR(RJC)

Attachment : To monitor output connector (1piece/module)  
 Compensation accuracy : ±1°C at 25°C

#### MEASURE

Mode : Direct, Composite, Differential  
 Direct : Direct temperature  
 Composite : Average temperature of the selected input channel  
                   (if the number of the selected input channel is one,  
                   the value of Composite is the same as Direct.)  
 Differential : Temperature difference obtained by subtracting  
                   Composite from Direct

#### Note)

- Composite and Differential can be enabled/disabled by the setting.
- Input channels to be selected for Composite can be set by the channel, but they must be from the same slot.
- To the recorder output and the output via Modbus communication, users can assign one of the modes above.
- 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.

#### OUTPUT

Indicator : OK LED (Green)  
                   When channel is normal : ON, When alarming : Flashing  
 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 : 6points  
                   Output range : 1 to 5V, 4 to 20mA  
                                   0 to 5V, 0 to 10V  
                   I/O conversion accuracy:±(1% of F.S.+1°C) at 25°C  
   ± (2% of F.S. +1°C) at 0°C to 65°C  
   (Monitor range: 200°C or more)  
                   Max. load resistance : 600Ω (current mode)  
                   Output impedance : Approx. 500Ω (voltage mode)  
                   Insulation resistance : 10MΩ at 100VDC  
                   Burnout function : Down scale 0%  
   Down scale 0mA / 0mV  
   Up scale +110% or more  
 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

#### ALARM

Alarm set point : Up to 4 points for each channel, each mode, from 0 to 100% of monitor range, field changeable.  
                   H-DANGER, H-ALERT, L-ALERT, L-DANGER  
 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)

Specification

ENVIRONMENTAL CONDITION

Operating temperature : 0 to +65°C  
 Operating temperature at explosion proof construction : 0 to +60°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)

ACCOMPANIMENT

Cold junction compensation sensor (VZ-73) : 1piece/module

ACCESSORY SPECIFICATION CODE / IDENTIFIED BY TB□

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

Note)\*1 D-sub plugs and hoods are not included in this code. Please make necessary arrangement separately, if required.

\*2 When individually ordering specify the parts code, it is required 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

Input points : 6 points  
 Input transducer : 100Ω 3-wire RTD (R100/R0=1.3851)  
 (non-intrinsic safety)  
 Monitor range : 0 to 200°C

MEASURE

Mode : Direct only

RECORDER OUTPUT

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

ALARM

Alarm(Direct)  
 H-DANGER set point : 160°C  
 H-ALERT set point : 120°C  
 L-ALERT set point : None  
 L-DANGER set point : None  
 Alarm delay time : 3sec (DANGER, ALERT)

Alarm reset : AUTO-RESET

CONTACT

Contact (RELAY1) : OR (DANGER-1 / DANGER-2 / DANGER-3)  
 Contact (RELAY2) : OR (ALERT-1 / ALERT-2 / ALERT-3)  
 Contact (RELAY3) : OR (NOT-OK-1 / NOT-OK-2 / NOT-OK-3)  
 Contact (RELAY4) : OR (DANGER-4 / DANGER-5 / DANGER-6)  
 Contact (RELAY5) : OR (ALERT-4 / ALERT-5 / ALERT-6)  
 Contact (RELAY6) : OR (NOT-OK-4 / NOT-OK-5 / NOT-OK-6)  
 Energization method : Normally de-energized

OTHERS

Initial low alarm bypass : OFF  
 First out : OFF  
 Timed OK channel defeat : ON  
 Burnout(Direct) : Downscale 0%

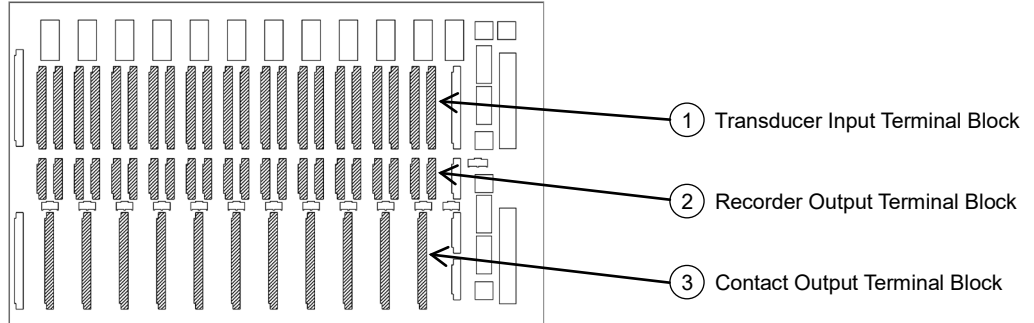
Alarm Contact Operation

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)



	Back of Instrument Rack	Plug/ Terminal Block (Connector) Pin Assignment	Fitting Plug	Part Code																																																												
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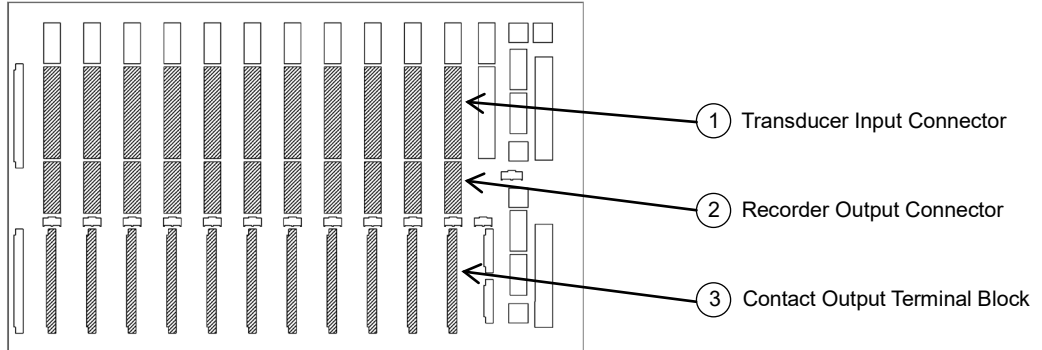
Note1) For the accessory specification code “/TB1”, the fitting terminal block plugs ① ② ③ are included.

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 ③ is included.  
For the accessory specification code "/TB2", the D-sub plugs and hoods ① ② are not included. If required, please make necessary arrangement separately referring to the part code above.