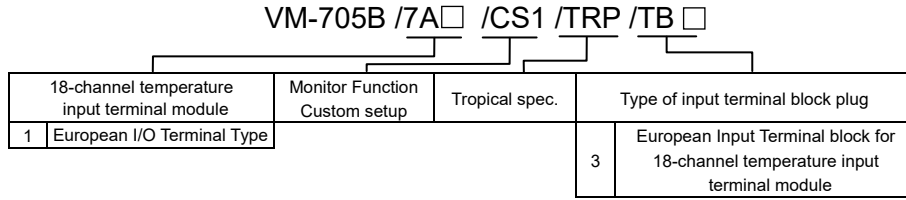


Model Code / Additional Spec. Code ( No entry if additional spec. code is not specified. )



### Specification

#### INPUT

Input points : 18 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 : No installation required (Built-in chip)

#### 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 : ACTIVE LED (Green)  
           On : Normal  
           Flash : The 18-Channel Temperature Input Module is not installed properly  
 OK LED (Green)  
           On : Normal  
           Flash : When OK alarm occurs  
                   (When an OK alarm is output in any of channels 1 through 18.)  
 Burnout function : Down scale Zero(Zero value)  
                           Up scale +110% or more  
 Contact output : None  
                   ※ By using the VM-721B or VM-722B Relay Module, contact signals output from the relay can be output from the contact output terminal block on the instrument rack.

#### 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.

#### BYPASS

First Low Alarm Bypass function : Suppress low alarm when low alarm is detected for the first time after turning on the power  
 Danger bypass : Block off alarm output (DANGER)  
 Channel bypass : Block off alarm output (DANGER, ALERT, OK and indication values)

#### ENVIRONMENTAL CONDITION

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

Specification

18-CHANNEL TEMPERATURE MONITOR MODULE

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)

18-CHANNEL TEMPERATURE INPUT MODULE

POWER CONSUMPTION

Module : Less than 15W

MATERIAL AND FINISH

Base plate : ZAM (Silver)

MASS

Body : Max. 1.0kg (2.2lb)

ACCESSORY SPECIFICATION CODE / IDENTIFIED BY TB3

Code	Accessory	Quantity (Part Code)
/TB3	Transducer input terminal plug (15pin) FMC-1,5/15-ST-3,5-RF (PHOENIX CONTACT)	6pieces *1 (7072NAW)

Note)\*1 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

Input points : 18 points  
Input transducer : 100Ω 3-wire RTD (R100/R0=1.3851)  
(non-intrinsic safety)  
Monitor range : 0 to 200°C

MEASURE

Mode : Direct only

ALARM

Alarm(Direct)

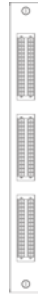
H-DANGER set point : 160°C  
H-ALERT set point : 120°C  
L-ALERT set point : None  
L-DANGER set point : None  
Alarm delay time : 3sec (DANGER, ALERT)  
Alarm reset : AUTO-RESET

OTHERS

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

Plug/ Terminal Block (Connector) Pin Assignment

18-Channel temperature input module



Transducer Input Terminal Block

Back of Instrument Rack	Plug/ Terminal Block (Connector) Pin Assignment				Fitting Plug	Part Code																																																										
	<table border="1"> <tr><td>A1</td><td>CH1 S-1</td></tr> <tr><td>A2</td><td>CH1 S-2</td></tr> <tr><td>A3</td><td>CH1 S-3</td></tr> <tr><td>A4</td><td>CH1 S-4</td></tr> <tr><td>A5</td><td>CH1 SHIELD</td></tr> <tr><td>A6</td><td>CH2 S-1</td></tr> <tr><td>A7</td><td>CH2 S-2</td></tr> <tr><td>A8</td><td>CH2 S-3</td></tr> <tr><td>A9</td><td>CH2 S-4</td></tr> <tr><td>A10</td><td>CH2 SHIELD</td></tr> <tr><td>A11</td><td>CH3 S-1</td></tr> <tr><td>A12</td><td>CH3 S-2</td></tr> <tr><td>A13</td><td>CH3 S-3</td></tr> <tr><td>A14</td><td>CH3 S-4</td></tr> <tr><td>A15</td><td>CH3 SHIELD</td></tr> </table>	A1	CH1 S-1	A2	CH1 S-2	A3	CH1 S-3	A4	CH1 S-4	A5	CH1 SHIELD	A6	CH2 S-1	A7	CH2 S-2	A8	CH2 S-3	A9	CH2 S-4	A10	CH2 SHIELD	A11	CH3 S-1	A12	CH3 S-2	A13	CH3 S-3	A14	CH3 S-4	A15	CH3 SHIELD	<table border="1"> <tr><td>B1</td><td>CH4 S-1</td></tr> <tr><td>B2</td><td>CH4 S-2</td></tr> <tr><td>B3</td><td>CH4 S-3</td></tr> <tr><td>B4</td><td>CH4 S-4</td></tr> <tr><td>B5</td><td>CH4 SHIELD</td></tr> <tr><td>B6</td><td>CH5 S-1</td></tr> <tr><td>B7</td><td>CH5 S-2</td></tr> <tr><td>B8</td><td>CH5 S-3</td></tr> <tr><td>B9</td><td>CH5 S-4</td></tr> <tr><td>B10</td><td>CH5 SHIELD</td></tr> <tr><td>B11</td><td>CH6 S-1</td></tr> <tr><td>B12</td><td>CH6 S-2</td></tr> <tr><td>B13</td><td>CH6 S-3</td></tr> <tr><td>B14</td><td>CH6 S-4</td></tr> <tr><td>B15</td><td>CH6 SHIELD</td></tr> </table>	B1	CH4 S-1	B2	CH4 S-2	B3	CH4 S-3	B4	CH4 S-4	B5	CH4 SHIELD	B6	CH5 S-1	B7	CH5 S-2	B8	CH5 S-3	B9	CH5 S-4	B10	CH5 SHIELD	B11	CH6 S-1	B12	CH6 S-2	B13	CH6 S-3	B14	CH6 S-4	B15	CH6 SHIELD		<p>Note2) 7072NAW</p>
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Note1) For the accessory specification code "/TB3", the fitting terminal block plugs are included.

Note2) When individually ordering specify the parts code, it is require to arrange for a necessary amount.