

Cautions for your Safety

*We appreciate you for purchasing CREVIS Products. To use the units more effectively, please read this quick guide and refer to the respective user manual for further details.

If you don't follow the directions, it could cause a personal injury, damage to the equipment or explosion

Warning!

- Do not assemble the products and wire with power applied to the system. Else it may cause an electric arc, which can result into unexpected and potentially dangerous action by field devices. Arching is explosion risk in hazardous locations. Be sure that the area is non-hazardous or remove system power appropriately before assembling or wiring the modules.
- Do not touch any terminal blocks or IO modules when system is running. Else it may cause the unit to an electric shock or malfunction.
- Keep away from the strange metallic materials not related to the unit and wiring works should be controlled by the electric expert engineer. Else it may cause the unit to a fire, electric shock or malfunction.

If you disobey the instructions, there may be possibility of personal injury, damage to equipment or explosion. Please follow below Instructions.

Caution!

- Check the rated voltage and terminal array before wiring. Avoid the circumstances over 55℃ of temperature. Avoid placing it directly in the sunlight.
- Avoid the place under circumstances over 85% of humidity.
- Do not place Modules near by the inflammable material. Else it may cause a fire.
- Do not permit any vibration approaching it directly.
- Go through module specification carefully, ensure inputs, output connections are made with the specifications. Use standard cables for wiring.
- Use Product under pollution degree 2 environment.

1. RTD and TC Module Specification

model	ST-3702	ST-3704	ST-3708	ST-3802	ST-3804	ST-3808
Channel	2 Channel	4 Channel	8 Channel	2 Channel	4 Channel	8 Channel
Input Range	RTD			TC		
Type	PT100 etc			Type K etc		
Resolution	±0.1°C/ F, 10mΩ					
Special Function	Diagnostic					
Accuracy	±0.1% Full Scale @25°C, ±0.3% Full Scale @ 0°C, 60°C	±0.3% Full Scale @25°C, ±0.5% Full Scale @ 0°C, 60°C		±0.1% Full Scale @25°C, ±0.3% Full Scale @ 0°C, 60°C	±0.3% Full Scale @25°C, ±0.5% Full Scale @ 0°C, 60°C	
Input Impedance	-					
Update Time	200msec / All Channel	30msec/1Channel when Normal Conversion		200msec / All Channel	30msec/1Channel when Normal Conversion	
Consum. Current	70mA/5Vdc	100mA/ 5Vdc	110mA/ 5Vdc	70mA/5Vdc	120mA/ 5Vdc	140mA/ 5Vdc
Common	2 Channels/2COM (Single Common)	4 Common/Module		2 Channels/2COM (Single Common)	4 Common/Module	
Isolation	Photocoupler isolation					

Class 2, adjacent to voltage rating (30Vmax.)

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* The Power isolator must be needed if you use it mixed with DC24V and DC48V or AC Power.

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* Specifications and designs could be changed without advance Notice

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2. RTD and TC Controllor Module Specification

model	ST-3714	ST-3814	ST-3734	ST-3834
Channel	4 Channel			
Input Sensor	1 RTD / channel	1 TC / channel	1 RTD / channel	1 TC / channel
Type	PT100 etc	Type K etc	PT100 etc	Type K etc
Control Method	P, PI, PD, PID with Auto tuning(Limit Cycle Method), On/Off(PB=0)			
Control Output	1 DC-Sink PWM Output SSR control (11~28.8Vdc) 1 DC-Sink Alarm Output (11~28.8Vdc)		1 Current Output (4~20mA, 12bit Resolution) 1 DC-Sink Alarm Output (18~28.8Vdc)	
Accuracy	±0.1% FS@25℃ or 1℃	±0.3% FS@25℃ or 5℃	±0.1% FS@25℃ or 1℃	±0.3% FS@ Operating Temp. (TC)
Parameter Setting	NA-9112 (DeviceNet)			
Cold Junction	-	External PT100	-	External PT100
Consum. Current	Max. 200mA @5Vdc,			
Isolation	I/O to Logic : Photocoupler Isolation			

*** ST-3714, ST-3734, ST-3814 and ST-3834 are only used the NA-9112**

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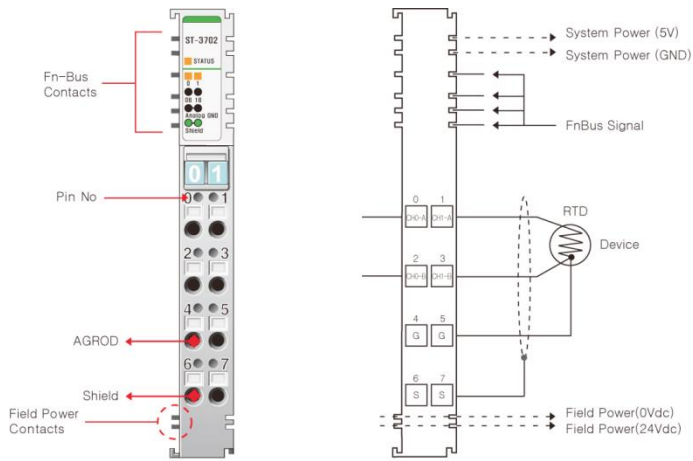
Homepage : www.crevis.co.kr E-Mail : crevis@crevis.co.kr



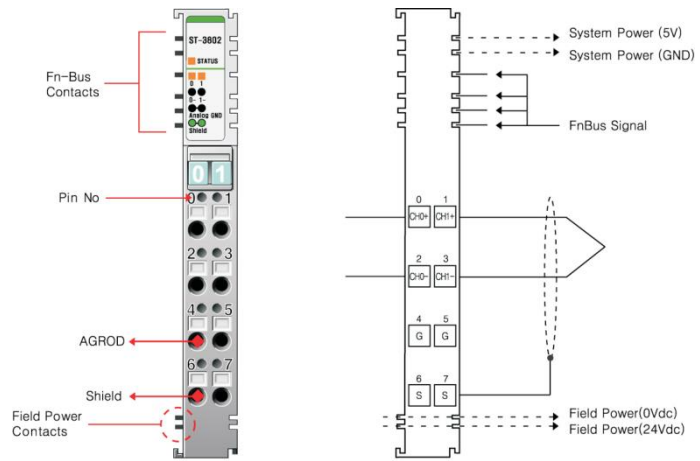
* Specifications and designs could be changed without advance Notice

2. Input wiring Diagram

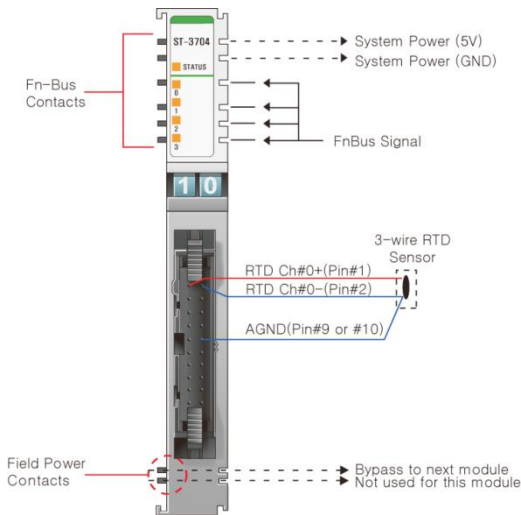
ST-3702 : 2 channels RTD / Resistance



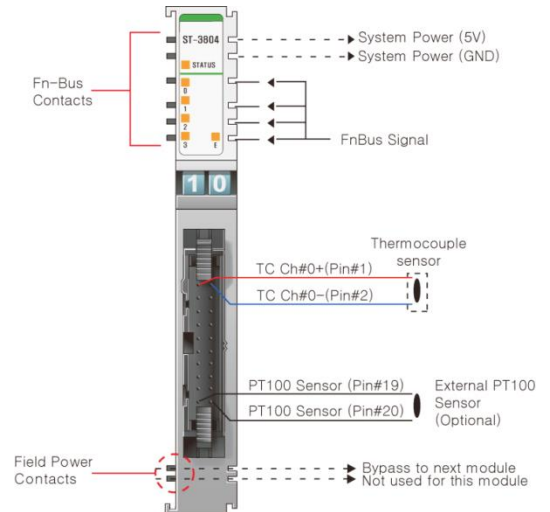
ST-3802 : 2 channels TC / mV



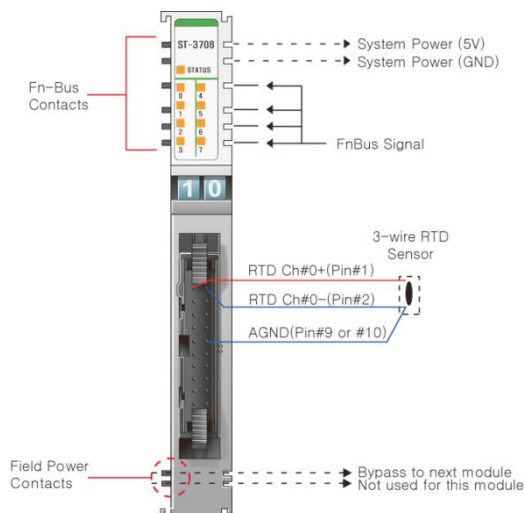
ST-3704 : 4 channels RTD / Resistance



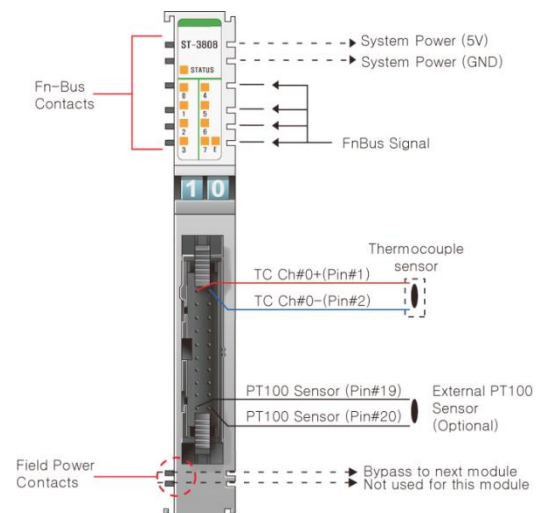
ST-3804 : 4 channels TC / mV



ST-3708 : 8 channels RTD / Resistance



ST-3808 : 8 channels TC / mV

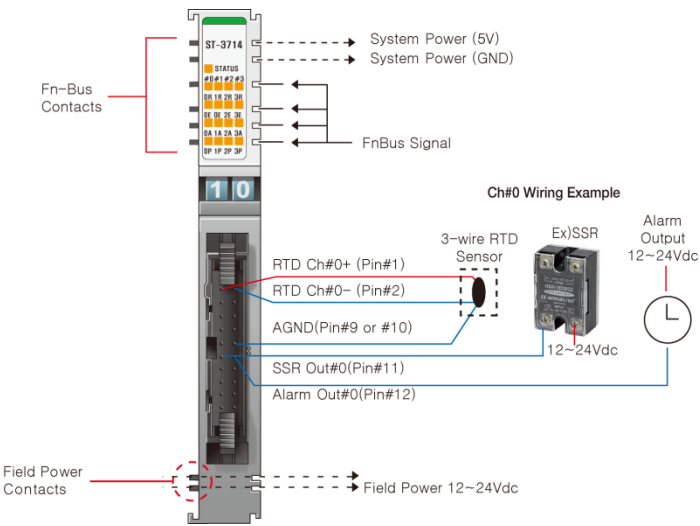


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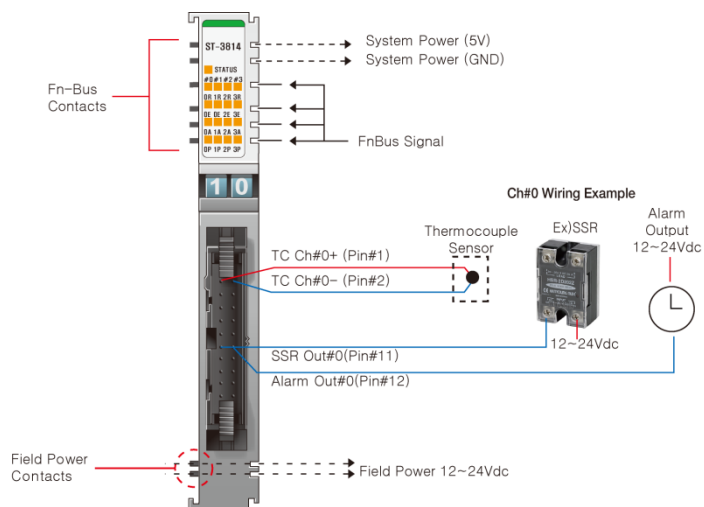
* External Field Power and Field Power are same power.

2. Input wiring Diagram

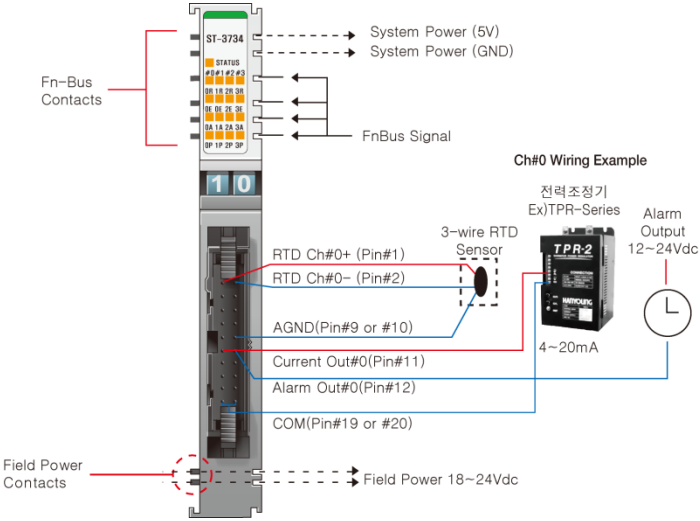
ST-3714 : 4 channels RTD / Resistance SSR Output



ST-3814 : 4 channels TC / mV SSR Output



ST-3734 : 4 channels RTD / Resistance Current Output



ST-3834 : 4 channels TC / mV Current Output

