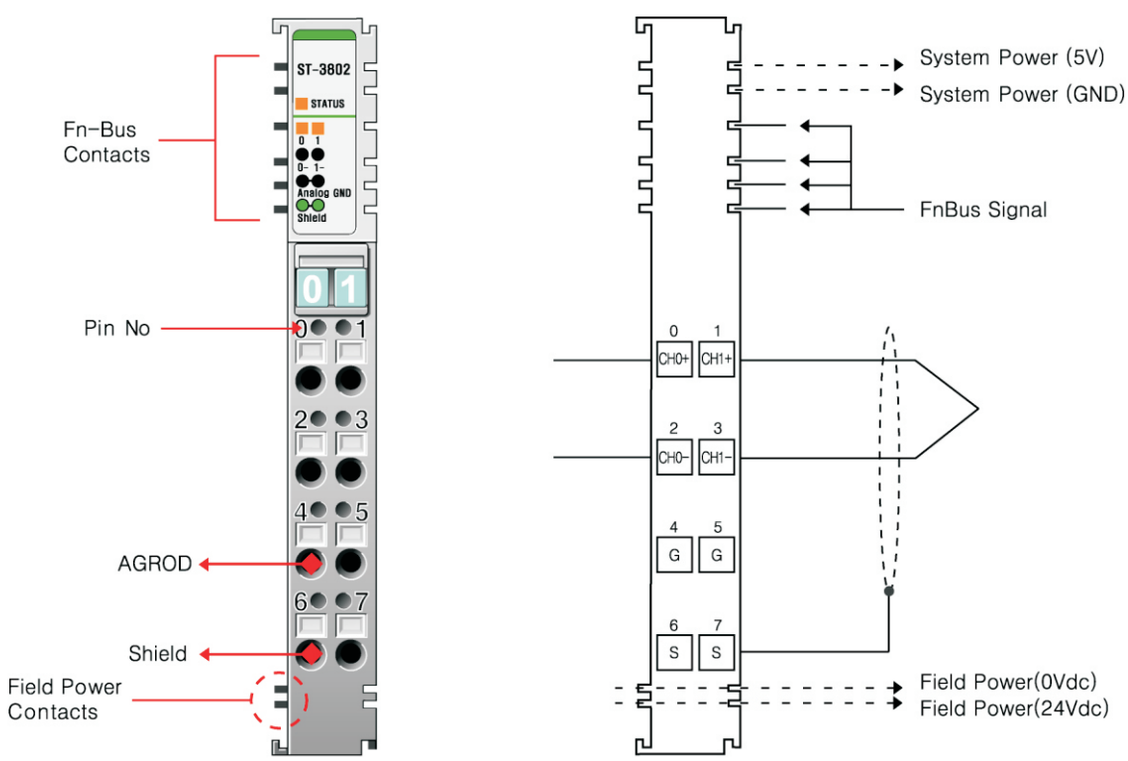
2 Channels Thermocouple/mV Input Terminal

- ST-3802는 2 Channels TC 모듈이며, thermocouple 에 직접 연결하여 사용합니다.
- 이 module에는 3개의 상태 LED가 있으며, 하나는 network 상태, 나머지는 field devices 상태를 위한 것입니다.

Items	Specification
Input Specification	
Number of Inputs	2 Channels Single Ended, Non-isolated Between Channels
Indicators	2 Green/Red States, 1 Green/Red FnBus State
Sensor Types	Type K/J/T/B/R/S/E/N/L/U/C/D mV Input10uV/Bit, 1uV/Bit, 2uV/Bit
Conversion Time	200msec / All Channel
Data Format	16bits Integer (2's compliment)
Resolution of Data	0.1℃ / 10mΩ
Module Error	±0.1% Full Scale @25℃ ±0.3% Full Scale @0℃, 60℃
Calibration	Not Required
Diagnostic	Channel Open (if it is not Connected, Data=0x8000)
Common Type	2 Channels / 2COM (Single Common)
General Specification	
Power Supply	From System Power DC/DC
Power Dissipation	Max. 70mA @ 5.0Vdc
Isolation	I/O to Logic : Photocoupler isolation Field power : Not Connected
Connection	2 or 3-Wire
Wiring	I/O Cable Max. 2.0㎟
Weight	70g
Module Size	12mm x 99mm x 70mm
Environment Condition	Refer to " Environment Specification"(page : 1-261)

Pin No	Description
0	Input Channel 0+
1	Input Channel 1+
2	Input Channel 0-
3	Input Channel 1-
4	Analog Ground
5	Analog Ground
6	Shield
7	Shield

Wire Diagram



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Mapping Data into the image Table

Input Module Data

Analog Input Ch0
Analog Input Ch1

Input Image Value

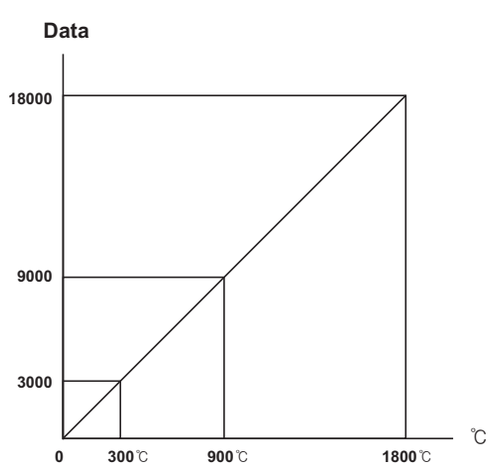
Bit No	Bit7	Bit6	Bit5	Bit4	Bit3	Bit2	Bit1	Bit0
Byte 0	Analog Input Ch0 Low byte							
Byte 1	Analog Input Ch0 High byte							
Byte 2	Analog Input Ch1 Low byte							
Byte 3	Analog Input Ch1 High byte							

Expansion Module Status LED

Status	LED is	To indicate
Not Powered	Off	Device has no expansion Module or may not be powered
No Initialized		The Parameter is not initialized yet.
Fn-Bus Connection	Green	FnBus normal Operation
Fn-Bus Ready	Flashing Green	FnBus Ready
Fn-Bus Fault	Flashing Red	FnBus Time Out
		FnBus Failed Communication
Device Fault	Red	Device Fault

Channel Status LED

Status	LED is	To indicate
Nominal	Green	Normal Operation
Channel Fault	Red	Channel Open

Type B

℃	0℃	300℃	900℃	1800℃
Data(Hex)	H0000	H0BB8	H2328	H4650