

# 8 Channels Current Input Terminal 0~20mA, 12bit



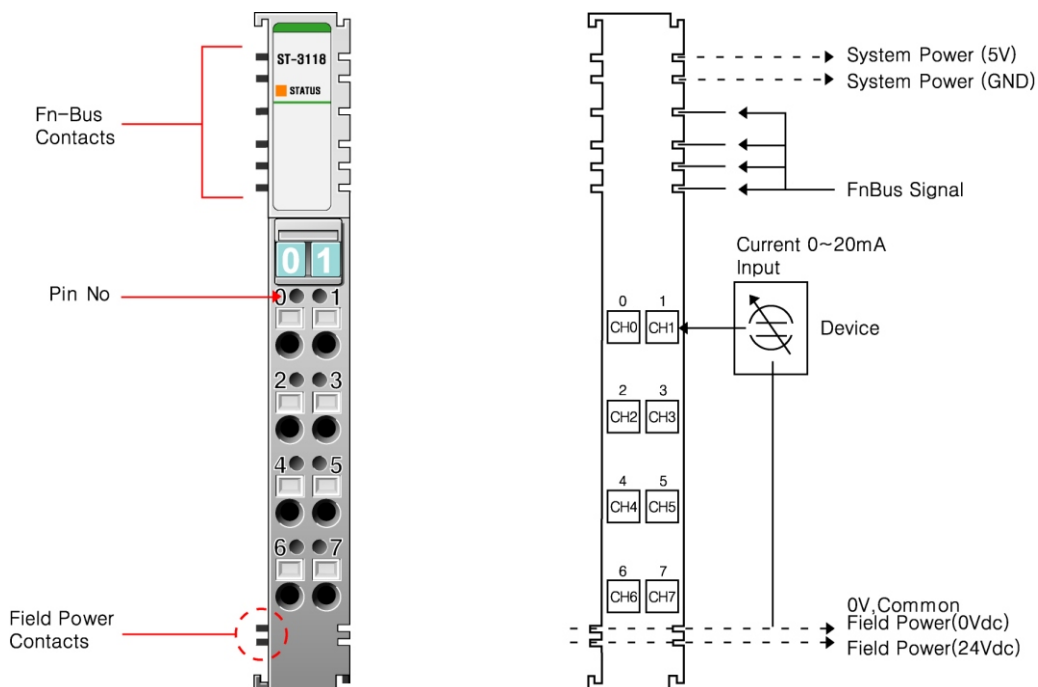
- ST-3118 is 8 Channels analog current type input. It receives signal in value of 0~20mA.
- The Input signal is electrically isolated and has the capability for the resolution of 12 bits.
- This module has 1 LEDs. One for Network status.
- The input channels are differential inputs. The shield is directly connected to the DIN rail.

## Items Analog Current Input Module

<b>Input Specification</b>	
Number of Inputs	8 Channels Single Ended
Indicators	1 Green/Red FnBus state
Resolution in Ranges	12Bits : 4.88uA/Bit
Input Range	0 ~ 20mA
Data Format	16bit Integer (2's compliment)
Module Error	±0.1% Full Scale @25°C, TBD ±0.3% Full Scale @0°C, 60°C, TBD
Input Impedance	120ohm
Conversion Time	4msec / All channel, TBD
Calibration	Not Required
Diagnostic	No
Common Type	Nothing in the module terminal Field Power 0V is Common(AGND)
<b>General Specification</b>	
Power Dissipation	Max. 60mA @ 5.0Vdc, TBD
Isolation	I/O to Logic : Photocoupler isolation I/O to Field Power : Non-Isolation
Field Power	Supply Voltage : 24Vdc nominal Voltage Range : 18~28.8Vdc Power Dissipation : Max. 40mA@24Vdc
Wiring	I/O Cable Max. 2.0m (AWG#14)
Weight	70g
Module Size	12mm x 99mm x 70mm
Environment Condition	Refer to " 2. Environment Specification "

Pin No	Description	Pin No	Description
0	Input Channel 0	1	Input Channel 1
2	Input Channel 2	3	Input Channel 3
4	Input Channel 4	5	Input Channel 5
6	Input Channel 6	7	Input Channel 7

## Wire Diagram



## Mapping Data into the image Table

**Input Module Data**  
- 16byte Input Data

Analog Input Ch0
Analog Input Ch1
Analog Input Ch2
Analog Input Ch3
Analog Input Ch4
Analog Input Ch5
Analog Input Ch6
Analog Input Ch7



**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							
Byte 4	Analog Input Ch2 Low byte							
Byte 5	Analog Input Ch2 High byte							
Byte 6	Analog Input Ch3 Low byte							
Byte 7	Analog Input Ch3 High byte							
Byte 8	Analog Input Ch4 Low byte							
Byte 9	Analog Input Ch4 High byte							
Byte 10	Analog Input Ch5 Low byte							
Byte 11	Analog Input Ch5 High byte							
Byte 12	Analog Input Ch6 Low byte							
Byte 13	Analog Input Ch6 High byte							
Byte 14	Analog Input Ch7 Low byte							
Byte 15	Analog Input Ch7 High byte							

## Expansion Module Status LED

State	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

## ST-3118

Current	0.0mA	5.0mA	10.0mA	20.0mA
Data(Hex)	H0000	H03FF	H07FF	H0FFF

