

FnIO G – Series :

GT-4334

GT-4334 (4 Channels 18pt RTB, Current Output)

4~20mA, 750ohm, 12bit

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History

Rev	Pages	Remarks	Date	Editor
1.00			2021/10/18	Soyeong, Park
1.01		Edit Field Power Dissipation	2023/02/01	Soyeong, Park
1.02		Edit Module Error @25°C	2023/03/10	Soyeong, Park
1.03	4,6	Edit Certification/Change Diagram	2023/08/10	Soyeong, Park
1.04	5	Edit System, Field Power Dissipation	2025/05/30	Suna, Hwang

Specification

1. ENVIRONMENT SPECIFICATION

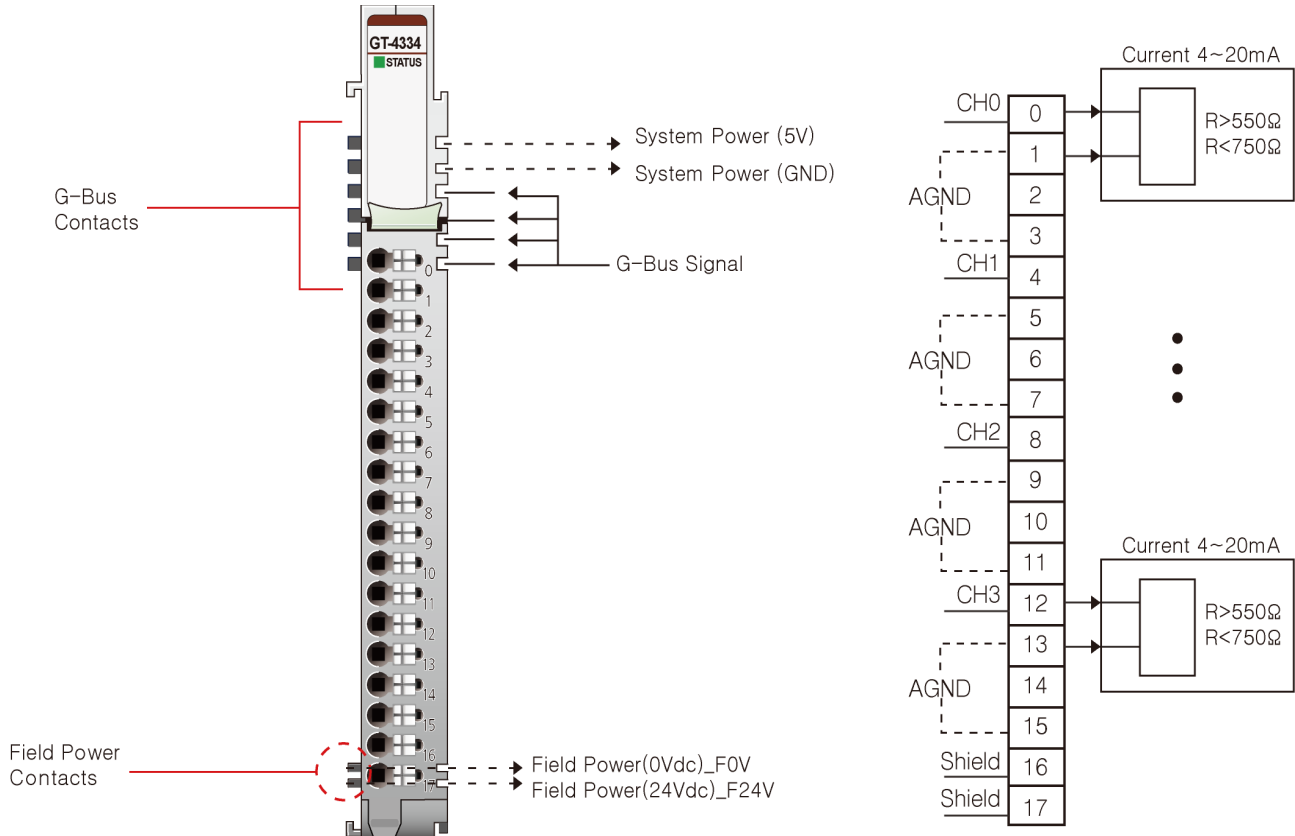
Environmental specification	
Operating Temperature	-40°C ~60°C
UL Temperature	-20°C ~60°C
Storage Temperature	-40°C ~85°C
Relative Humidity	5% ~ 90% non-condensing
Mounting	DIN rail
General specification	
Shock Operating	IEC 60068-2-27
Vibration Resistance	Based on IEC 60068-2-6, 4g
Industrial Emissions	EN61000-6-4/All : 2011
Industrial Immunity	EN 61000-6-2 : 2019
Installation Position	Vertical and horizontal installation is available
Product Certifications	CE, UL

2. GT-4334 (4 Channels, Current Output, 4~20mA, 750ohm, 12bit)

2.1. GT-4334 Specification

Items	Specification
Output Specification	
Outputs per module	4 Channels single ended, non-isolated between channel
Indicators(Logic side)	1 Green G-Bus status
Resolution in Ranges	12 bits : 3.91uA/Bit
Output Range	4~20mA
Data Format	16bits Integer (2' compliment)
Module Error	±0.2% Full Scale @ 25°C ±0.3% Full Scale @ -40°C, 60°C
Load Resistance	Min.550Ω, Max.750Ω
Diagnostic	Field Power Off : LED Blinking
Conversion Time	0.15msec / All channel
Calibration	Not Required
Common Type	12 Common, Field Power 0V is Common(AGND)
General Specification	
Power dissipation	Max. 35mA @ 5Vdc
Isolation	I/O to Logic : Photocoupler isolation Field power : Non-Isolation
UL Field Power	Supply Voltage : 24Vdc nominal, Class 2
Field Power	Supply Voltage : 24Vdc nominal Voltage Range : 18~30Vdc Power Dissipation : Max. 115mA @ 24Vdc
Wiring	I/O Cable Max. 0.823mm ² (AWG 18)
Weight	63g
Module Size	12mm x 109mm x 70mm
Environment Condition	Refer to 'Environment Specification'

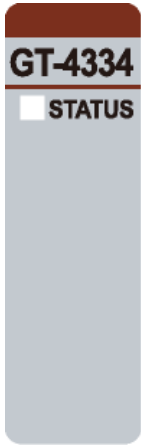
2.2. GT-4334 Wiring Diagram



Pin No.	Signal Description
0	Output Channel 0
1	Output Channel Common(AGND)
2	Output Channel Common(AGND)
3	Output Channel Common(AGND)
4	Output Channel 1
5	Output Channel Common(AGND)
6	Output Channel Common(AGND)
7	Output Channel Common(AGND)
8	Output Channel 2
9	Output Channel Common(AGND)
10	Output Channel Common(AGND)
11	Output Channel Common(AGND)
12	Output Channel 3
13	Output Channel Common(AGND)
14	Output Channel Common(AGND)
15	Output Channel Common(AGND)
16	Shield
17	Shield

2.3. GT-4334 LED Indicator

2.3.1. LED Indicator



LED No.	LED Function / Description	LED Color
0	Status LED	Green

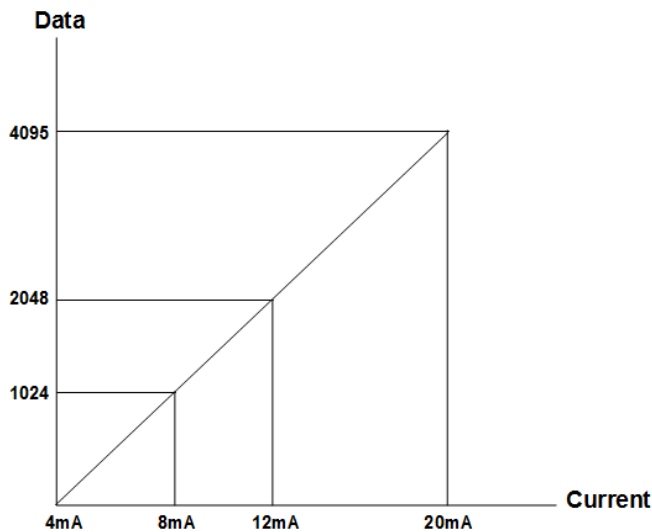
2.3.2. Channel Status LED

Status	LED	To indicate
G-Bus Status	Off Green	Disconnection Connection
Field Power Error	Status Channel Repeat the Green and Off	Field power is unconnected.

2.4. Data value / Current

Current Range : 4~20mA

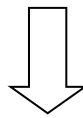
Current	4.0mA	8.0mA	12.0mA	20.0mA
Data(Hex)	H0000	H0400	H0800	H0FFF



2.5. Mapping data from the image table

- Output Image Value

Bit No	Bit7	Bit6	Bit5	Bit4	Bit3	Bit2	Bit1	Bit0
Byte0	Analog Output Ch0 Low byte							
Byte1	Analog Output Ch0 High byte							
Byte2	Analog Output Ch1 Low byte							
Byte3	Analog Output Ch1 High byte							
Byte4	Analog Output Ch2 Low byte							
Byte5	Analog Output Ch2 High byte							
Byte6	Analog Output Ch3 Low byte							
Byte7	Analog Output Ch3 High byte							



- Output Module Data

Analog Output Ch0							
Analog Output Ch1							
Analog Output Ch2							
Analog Output Ch3							

2.6. Parameter Data

- Valid Parameter length: 4 Bytes
- Parameter Data

Bit No	Bit7	Bit6	Bit5	Bit4	Bit3	Bit2	Bit1	Bit0
Byte0	Fault Action for channel 3		Fault Action for channel 2		Fault Action for channel 1		Fault Action for channel 0	
	00: Fault Value 01: Hold last state 10: Low Limit 11:High Limit							
Byte1	Reserved							
Byte2	Fault Value Low Byte							
Byte3	Reserved				Fault Value High Byte			