
FnIO G – Series :

GT-2338

GT-2338 (8 Points, Sink Output Terminal, 24Vdc/2A)

Table of Contents

[Table of Contents.....2](#)

[History.....3](#)

[1.ENVIRONMENT SPECIFICATION.....4](#)

[2.GT-2338 \(8 Points, Sink Output Terminal\).....5](#)

[2.1.GT-2338 Specification.....5](#)

[2.2.GT-2338 Wiring Diagram.....6](#)

[2.2.1.Wiring Guide.....7](#)

[2.3.GT-2338 LED Indicator.....8](#)

[2.3.1.LED Indicator.....8](#)

[2.3.2.Channel Status LED.....8](#)

[2.4.Mapping data into the image table.....9](#)

[2.5.Parameter Data.....10](#)

History

Rev	Pages	Remarks	Date	Editor
1.00			2022/05/04	Joonho, Park
1.01	7	Modify Image	2022/07/15	Chiwon, Seo
1.02	5	Change Output Delay Time and Leackage current	2022/09/30	Chiwon, Seo
1.03	6	Change Diagram	2023/04/03	Soyeong, Park
1.04	4,6,8	Edit Certification / Change Diagram, Status LED	2023/08/08	Suna, Hwang

Specification

1. ENVIRONMENT SPECIFICATION

Environmental specification	
Operation 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, UKCA

Specification

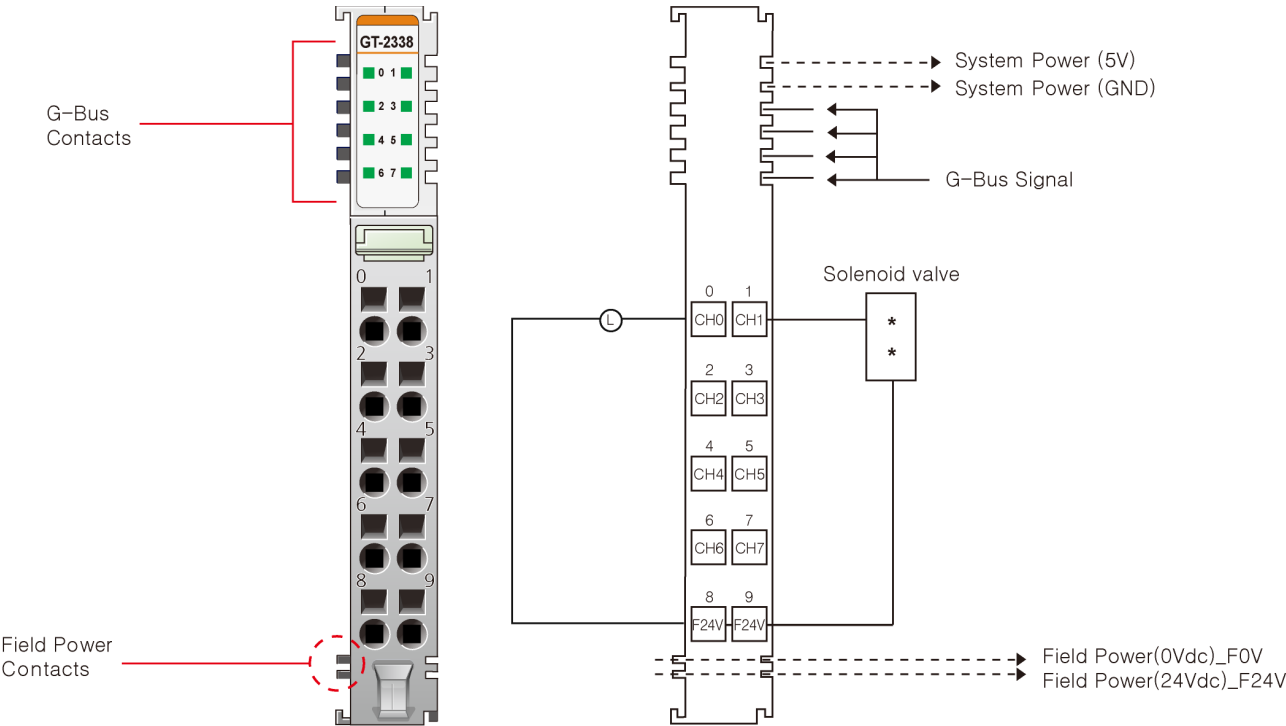
2. GT-2338 (8 Points, Sink Output Terminal)

2.1. GT-2338 Specification

Items	Specification
Output specification	
Output per module	8 points sink type
Indicators	8 green output status
Output voltage range	24Vdc nominal Min. 15Vdc ~ Max. 30Vdc
On-state voltage drop	3.0Vdc @ 2A / 0.5Vdc @ 0.3A
On-state min. current	Min. 1mA
Off-state leakage current	Max. 2uA
Output signal delay	OFF to ON : Max. 0.4ms @ 2A / OFF to ON : Max. 0.2ms @ 0.3A ON to OFF : Max. 0.4ms @ 2A / ON to OFF : Max. 0.4ms @ 0.3A
Output current rating	Refer to Specification of NA -GT9xxx: Max. 2.0A per channel / Max. 10A per unit. -GL9xxx: Max. 2.0A per channel / Max. 8A per unit.
Protection(1)	None
Common type	8 points / 2 COM
General specification	
Power dissipation	Max. 50mA @ 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 : 15~30Vdc Power dissipation: 10mA @ 24Vdc
Single Wiring	I/O Cable Max. 2.0mm ² (AWG 14)
Weight	57g
Module size	12mm x 99mm x 70mm
Environment condition	Refer to '1. Environment Specification'

(1) Check the 2.2.1 Wiring Guide.

2.2. GT-2338 Wiring Diagram



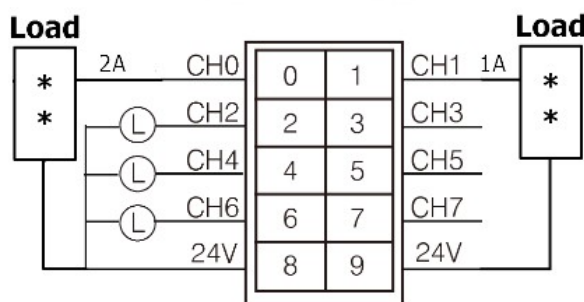
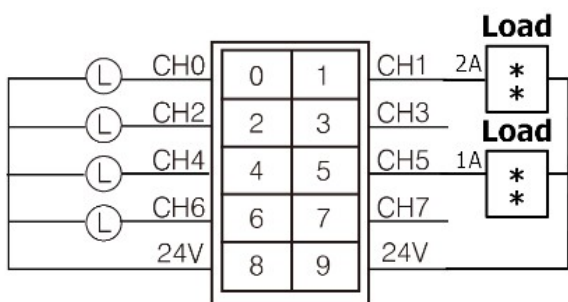
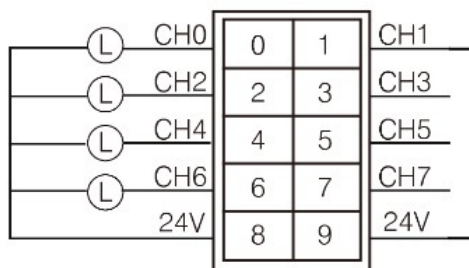
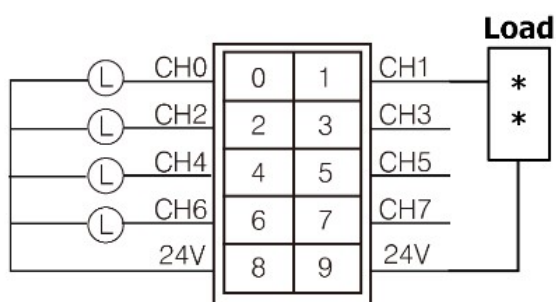
Pin No.	Signal Description	Signal Description	Pin No.
0	Output Channel 0	Output Channel 1	1
2	Output Channel 2	Output Channel 3	3
4	Output Channel 4	Output Channel 5	5
6	Output Channel 6	Output Channel 7	7
8	Common (Field Power 24V)	Common (Field Power 24V)	9

2.2.1. Wiring Guide

WARNING !

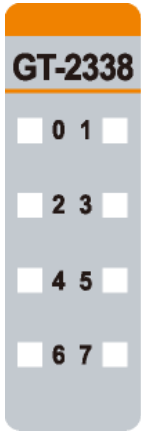
Observe the following instructions for wiring

- Observe the maximum output current of the I/O Module. Parts may be damaged.
- Do not connect the input and GND pins without any load. Parts may be damaged.
- If you are using current above 1.0A, Do not use next one channel.



2.3. GT-2338 LED Indicator

2.3.1. LED Indicator



LED No.	LED Function / Description	LED Color
0	OUTPUT Channel 0	Green
1	OUTPUT Channel 1	Green
2	OUTPUT Channel 2	Green
3	OUTPUT Channel 3	Green
4	OUTPUT Channel 4	Green
5	OUTPUT Channel 5	Green
6	OUTPUT Channel 6	Green
7	OUTPUT Channel 7	Green

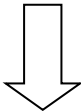
2.3.2. Channel Status LED

Status	LED	To indicate
No Signal	Off	No Output Signal
On Signal	Green	Output Signal detected

2.4. Mapping data into the image table

● Output Image Value

Bit No	Bit7	Bit6	Bit5	Bit4	Bit3	Bit2	Bit1	Bit0
Byte0	D7	D6	D5	D4	D3	D2	D1	D0



● Output Module Data

D7	D6	D5	D4	D3	D2	D1	D0
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2.5. Parameter Data

- Valid Parameter length: 2 Bytes
- Parameter Data

Bit No	Bit7	Bit6	Bit5	Bit4	Bit3	Bit2	Bit1	Bit0
Byte0	Fault Action (ch0~ch7) 0: Fault value, 1:Hold last state							
Byte1	Fault value (ch0~ch7) 0:Off, 1:On							