
FnIO G-Series

GT-2744

GT-2744(4 Points, Relay Output Terminal, 24Vdc/2A, 240Vac/2A)

Table of Contents

Table of Contents.....2

History.....3

1.Environment Specification.....4

2.GT-2744 (4 Points, Relay Output Terminal, 24Vdc/2A, 240Vac/2A).....5

 2.1.GT-2744 Specification.....5

 2.2.GT-2744 Wiring Diagram.....6

 2.3.GT-2744 LED Indicator.....7

 2.3.1.LED Indicator.....7

 2.3.2.Channel Status LED.....7

 2.4.Mapping Data into the Image Table.....8

 2.5.Parameter Data.....9

Specification

History

REV.	PAGES	REMARKS	DATE	Editor
Preliminary	ALL	Preliminary	July 28, 2016	Lee, Geonwoong
1.01	8	Specification Revision	Oct 17, 2016	Jun, Seokhyun
1.02	4,5	Shock, Vibration specification changed General specification added(UL)	04.20.2020	JY BAE
1.03	6	Changed Diagram	Apr 03, 2023	Soyeong, Park

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 : 2008/15g, 11ms
Vibration Resistance	Based on IEC 60068-2-6 DNVGL-CG-0039 : 2016/6 Vibration Class B, 4g
Industrial Emissions	EN 61000-6-4 : 2007 +A1:2011
Industrial Immunity	EN 61000-6-2 : 2005
Installation Position	Vertical and horizontal installation is available.
Product Certifications	CE, UL

Specification

2. GT-2744 (4 Points, Relay Output Terminal, 24Vdc/2A, 240Vac/2A)

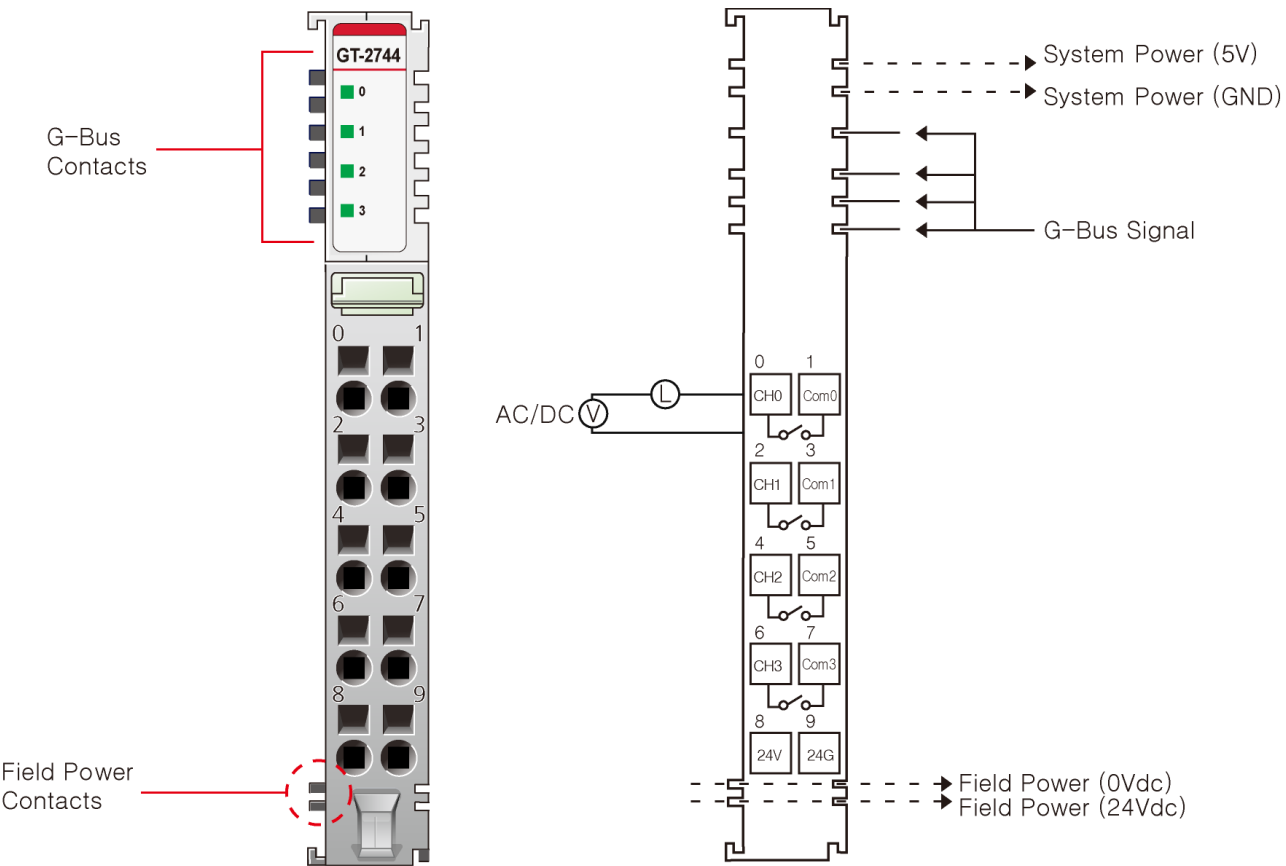
2.1. GT-2744 Specification

Items	Specification
Output specification	
Output per module	4 points, bi-directional
Indicators	4 green output state
Relay type	Form A, single pole single throw (SPST)
Output voltage range (load dependent)	0~32Vdc @ 2.0A resistive 48Vdc @ 0.8A resistive 110Vdc @ 0.5A resistive 240Vac @ 2.0A resistive
Output current rating (At rated power)	2.0A @ 0~30Vdc 0.8A @ 48Vdc 0.5A @ 110Vdc 2.0A @ 240Vac -40°C~70°C (2A load 2ch) -40°C~60°C (2A load 4ch)
Output delay time (resistive load)	OFF to ON : Max. 5ms @ 24Vdc ON to OFF : Max. 8ms @ 24Vdc OFF to ON : Max. 5ms @ 220Vac ON to OFF : Max. 15ms @ 220Vac
Expected contact life	20M cycles (resistive)
Frequency range (Vac)	47Hz ~ 63Hz
Max. on-state voltage drop*	0.5V @ 2.0A, resistive load, 24Vdc
Common type	4 points / 2 COM
General specification	
Power dissipation	Mx.35mA @ 5Vdc
Isolation	I/O to Logic : photocoupler isolation Field power : non-isolation
Field power	Supply voltage : 24Vdc nominal Voltage range : 22 ~ 26Vdc Power dissipation: 30mA @ 24Vdc (AC Power Not used)
Wiring	I/O Cable Max. 2.0mm ² (AWG 14)
Weight	58g
Module size	12mm x 99mm x 70mm
Environment condition	Refer to 'Environment Specification'

* Voltage Drop specification is dependent on the cable length due to the high Load.

Specification

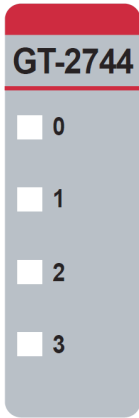
2.2. GT-2744 Wiring Diagram



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

2.3. GT-2744 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

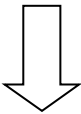
2.3.2. Channel Status LED

Status	LED	To indicate
Not Signal	Off	No Output Signal
On Signal	Green	Normal Operation

2.4. Mapping Data into the Image Table

● Output Image Value

Bit No	Bit7	Bit6	Bit5	Bit4	Bit3	Bit2	Bit1	Bit0
Byte0	Reserved				D3	D2	D1	D0



● Output Module Data

D3	D2	D1	D0
----	----	----	----

2.5. Parameter Data

- Valid Parameter length : 2Byte
- Parameter Data

Offset	Decimal Bit	Description	Default Value
0	00-03	Fault Action(0~3) 0 : Fault Value, 1 : Hold last state	0 (Fault Value)
1	00-03	Fault Value (0~3) 0 : off, 1 : on	0 (off)