

# FRRU004-GSCU

## Gas Suppression Control Unit

### Features

- Field control unit for gas suppression systems
- SLC Class B, Class A, and Class X
- NACs and DI (discharge indicator) Class B
- Programmable NAC, DI, abort, and manual release circuits
- Equipped with changeover switch (Auto & Manual or Manual only) and countdown timer
- Status LEDs for power input, changeover switch, abort, manual release, trouble, suppression disabled, pre-discharge, discharge
- Electrical address setting



### Description

The FRRU004-GSCU module is used to control gas suppression systems. The FRRU004-GSCU is capable of discharging the gas either by automatic or manual. The FRRU004-GSCU monitors manual release switch and abort switch status, counts down to gas discharge, operates output devices, and indicates the gas discharge. The FRRU004-GSCU has the changeover switch which selects Auto & Manual or Manual Only. The FRRU004-GSCU continuously supervises the wiring connected to the terminals NAC1, NAC2 and DI for open or short circuits and presence of 24VDC.

### Ordering Information

Control Unit: FRRU004-GSCU-R  
Enclosure for GSCU: ECL-GSCU-R

### Specifications

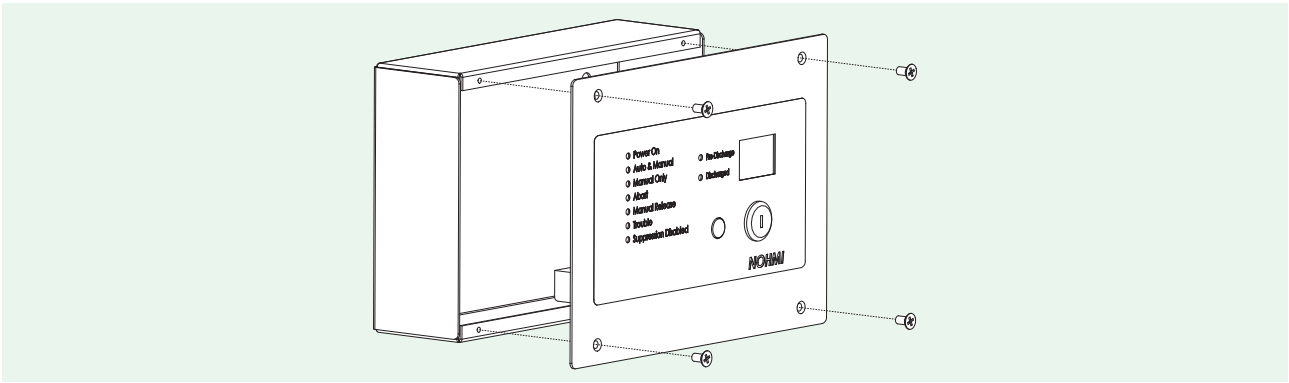
No.	Item	Specification
1	Rated voltage range of SLC input power (S+,S-)	22.0 to 24.0 V
2	Maximum SLC 24 VDC standby current (S+,S-)	250 $\mu$ A
3	Maximum SLC 24 VDC alarm current (S+,S-)	250 $\mu$ A
4	Operating voltage of external power supply line (24+,24-)	24 VDC
5	Rating for NAC1 and NAC2	1.5 A per circuit
6	Rating for DI	1.0 A
7	Rating for total of NAC1, NAC2, and DI	3.0 A for three circuits
8	Rating for contact output	2.0 A
9	Contact output style	Typical Form C
10	Consumption current of the board at standby	80 mA
11	Consumption current of the board at alarm	150 mA
12	Wiring style for NAC1, NAC2 and DI	NFPA Class B
13	End-of-line resistor for NAC1, NAC2 and DI	5.1k $\Omega$ , 1/2W
14	Maximum wiring resistance of output circuit wiring	Refer to Wiring diagram
15	Maximum wiring capacitance of NAC1, NAC2 and DI circuit wiring	1 $\mu$ F
16	Operating temperature range	0 to 49°C (32 to 120 °F)
17	Operating humidity range	0 to 93% (non-condensing)
18	Address per module	2 addresses
19	Maximum number of modules per FACP	14 units
20	Dimensions	145 mm (5.71") (H) x200 mm (7.87") (W) x57 mm (2.24") (D)

### Setting the Address

Each addressable module, smoke detector, heat detector and combination detector must have the address set before connecting the device to the Signaling Line Circuit (SLC) loop. The address is set using the hand held device programmer.

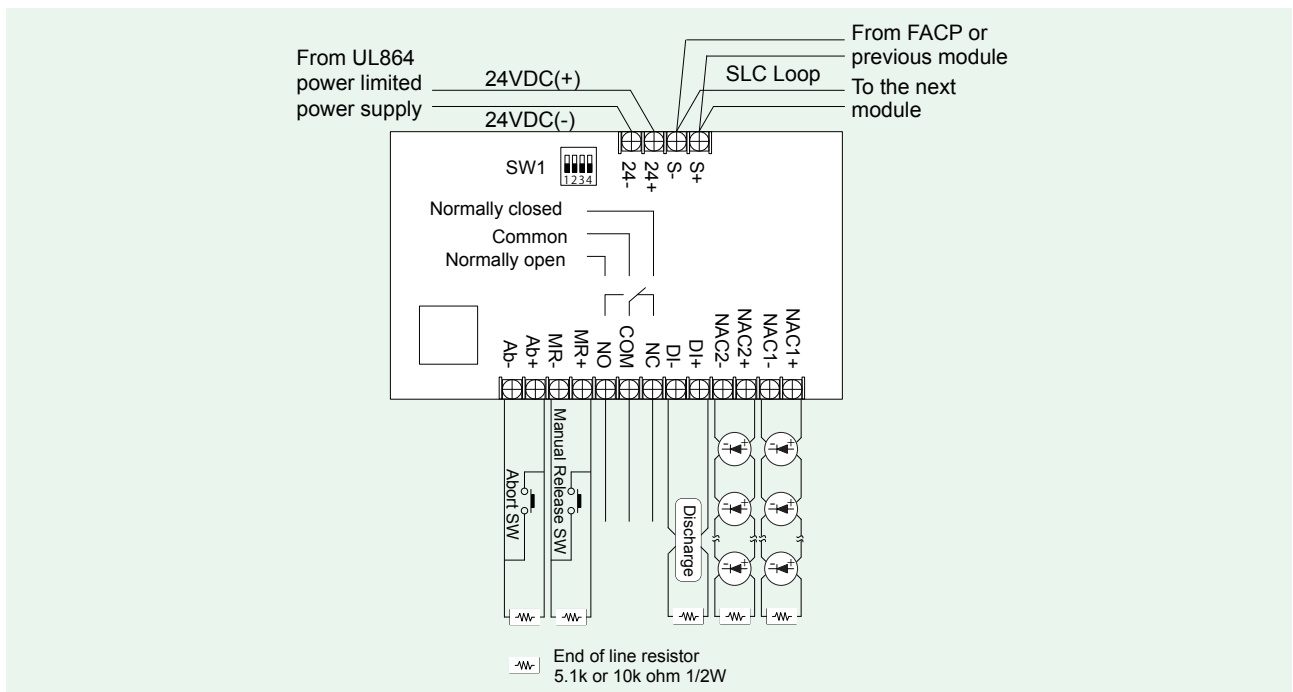
## Installation

Figure 1: Installation into the ECL-GSCU-R



## Wiring Diagram

Figure 2: Wiring diagram of FRRU004-GSCU



### Notice

- These instructions do not purport to cover all the details or variations in the equipment described, nor provide for every possible contingency to be met in connection with installation, operation and maintenance.
- Specifications are subject to change without notice. Contact Nohmi before relying on above specifications.
- Actual performance is based on proper application of the product by a qualified professional.
- Should further information be desired or should particular problems arise, which are not covered sufficiently for the purchaser's purpose, the matter should be referred to Nohmi or a distributor in your region.

**NOHMI**  
NOHMI BOSAI LTD.

- Head Office: 4-7-3 Kudan-Minami, Chiyoda-ku, Tokyo 102-8277, Japan
  - Phone: (81)3-3265-0231
  - F A X: (81)3-3265-5348
- URL <http://www.nohmi.co.jp/english/>

Contact