

Features

- ✧ 2 digital loop interfaces.
- ✧ Supporting CLASS A.

Description

- ✧ Refer to IFP4M Fire Alarm Control Panel Installation (Document # 30310301) and Operation Manual (Document # 30310331)
- ✧ LC-402 Dual Loop Card provides 2 digital loop interfaces for GST-IFP4M Control Panel.
- ✧ Max. 242 addressable loop devices can be connected.
- ✧ The following should be set after power on. Refer to GST-IFP4M Fire Alarm Control Panel Installation and Operation Manual for details.
 - 1) Set the quantity of cards connecting to the control panel.
 - 2) Configure device information of every loop.
- ✧ LEDs
 - 1) LC-402 card has two LEDs. Red HL1 is for the state of Loop 1. Red HL2 is for the state of Loop 2.
 - 2) Flashing HL1 and HL2 mean normal operation.
 - 3) The corresponding HL1 turns off if short circuit occurs.
- ✧ One GST-IFP4M Control Panel can connect 3 LC-402 cards at the most. Its installation position is shown in Fig. 2.

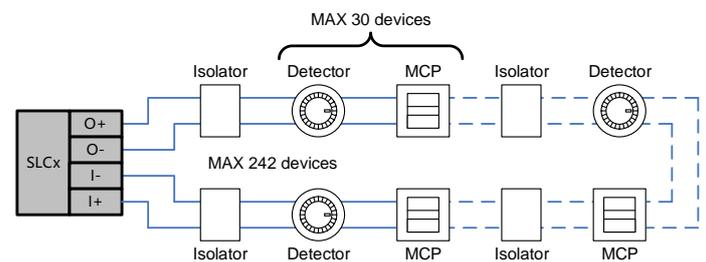


Fig. 1

Installation

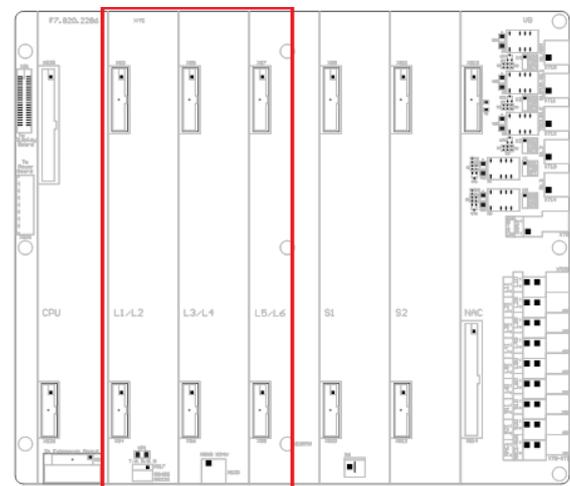


Fig. 2

Connection & Wiring

SLC is loop bus. Each SLC includes four wires: O+ (bus output positive), O- (bus output negative), I+ (bus input positive), and I- (bus input negative). The wire from O+ is connected back to I+ and the wire from O- back to I-. SLC has two connections of CLASS A.

When connecting with DC-M9503 Loop Isolator, Each SLC can connect up to 128 Isolators. 50 detectors/MCPs/modules can be protected between two isolators. Connection is shown below Fig 1.

Application

LC-402 Dual Loop Card is inserted into mother board slots of the control panel as shown in Fig.2. Connecting with loop devices is shown in Fig. 1.

Specification

| | |
|---------------------|---|
| Interface | 2 digital loop interface |
| Device Capacity | Max. 242 addressable devices for each loop, two loops have 484 addressable devices. |
| Transmission Medium | Max. Line Impedance: 18 ohms each wire |
| Output Voltage | Min: 18VDC Nominal: 24VDC Max: 28VDC |
| Current | Standby Current: 0.13A Max Alarm Current : 0.35A |
| Ambient Temperature | 0-49°C/32-120° F |
| Relative Humidity | ≤93%, non condensing |

Trouble shooting

| Problems | Solutions |
|---------------|--|
| Open circuit | <ol style="list-style-type: none"> 1. Check if the connection is correct according to Fig. 1. 2. Check if the circuit is open or there is short circuit between isolators. |
| Short circuit | <ol style="list-style-type: none"> 1. Check if there is short circuit between the control panel and detectors. 2. Check the whole circuit to confirm if there is short. |

Typical Configuration of SLCs

The typical configurations of SLCs include Intelligent Photoelectric Smoke Detector,

This Data Sheet is subject to change without notice. Please contact GST for more information or questions.

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Intelligent Rate of Rise and Fixed Temperature Heat Detector, Digital Manual Call Point, Addressable Input Module, Addressable Output Module and Loop Isolators. Refer to Table 1 for maximum length of wires in different configurations.

| Configuration | 1 | 2 | 3 | 4 |
|------------------------|-------|-------|-------|-------|
| No. of smoke detectors | 60 | 80 | 100 | 120 |
| No. of heat detectors | 8 | 10 | 10 | 15 |
| No. of MCPs | 8 | 10 | 10 | 15 |
| No. of input modules | 4 | 4 | 4 | 10 |
| No. of output modules | 4 | 4 | 4 | 10 |
| No. of loop isolators | 2 | 3 | 4 | 5 |
| Max. length with 14AWG | 4000m | 3300m | 2600m | 2000m |
| Max. length with 15AWG | 3500m | 2700m | 2200m | 1700m |
| Max. length with 16AWG | 3000m | 2300m | 1900m | 1400m |
| Max. length with 17AWG | 2000m | 1500m | 1200m | 900m |

Table 1

Limited Warranty

GST warrants that the product will be free from defects in design, materials and workmanship during the warranty period. This warranty shall not apply to any product that is found to have been improperly installed or used in any way not in accordance with the instructions supplied with the product. Anybody, including the agents, distributors or employees, is not in the position to amend the contents of this warranty. Please contact your local distributor for products not covered by this warranty.