

## Features

- ✧ Photoelectric isolation RS485 interfaces.
- ✧ Supporting for MODBUS RTU communication protocol.

## Description

- ✧ Refer to GST-IFP4E Fire Alarm Control Panel Installation Manual.
- ✧ P-9956E-Modbus modbus card is optional for GST-IFP4E control panel, providing photoelectric isolation interfaces of RS485.
- ✧ This card is NOT hot-swappable.
- ✧ Refer to the control panel manual for following settings.
  - 1) Define the quantity of Modbus cards connecting to the control panel.
  - 2) Set addresses quantity of the control panels in the system.
- ✧ LEDs
  - 1) P-9956E-Modbus card has RS485 port. Illuminating HL2 and HL3 mean that a port is fault.
  - 2) Flashing HL2 and HL3 mean that P-9956E-Modbus works normally.
- ✧ The loop shouldn't exceed 1200m when RS485 is used.
- ✧ One GST-IFP4E control panel can connect max three P-9956E-Modbus cards, refer to Fig. 2.

## Connection & Wiring

Fig 1 shows the connection when P-9956E-Modbus is plugged into S2 slot.

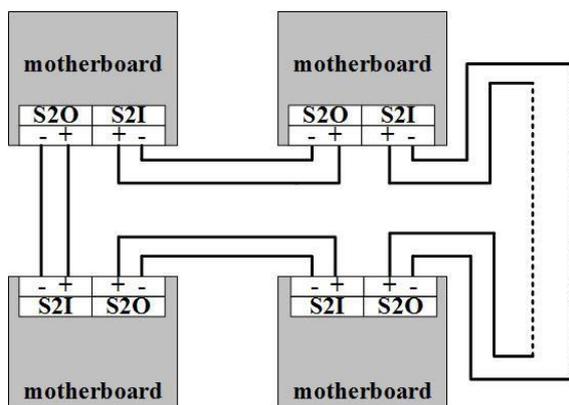


Fig. 1 CAN Ring Network



## Installation

The position of P-9956E-Modbus card is shown in Fig. 2. P-9956E-Modbus Modbus Card can be plugged into L5/L6, S1 or S2 slot of MB-400 Mother Board. Maximum three Network cards, including P-9956E-Modbus or P-9983 may be used in the panel. When plugged on slot L5/L6, connect external network wires on terminals L5O. When plugged on slot S1, connect external network wires on terminals S1O. When plugged on slot S2, terminals S2O are to be used.

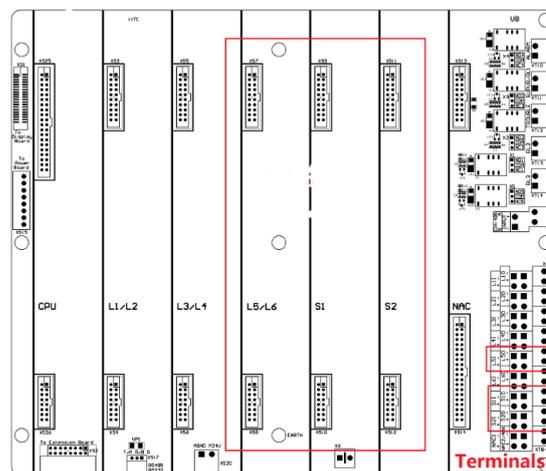


Fig. 2

## Application

P-9956E-Modbus Modbus Card is inserted into mother board slots of the control panel as shown in Fig.2. Ring network is formed though twisted pair as shown in Fig. 1.

## Specification

Comm. Interface	RS485 interfaces
Comm. Distance	It is less than 15m by using RS232 and less than 1200m by using RS485 or RS422.
Transmission Medium	1.0 mm <sup>2</sup> or above twisted pair is recommended.
Baud Rate	4800bps
Electrical Rating	5VDC, 200mA

Ambient Temperature	-5-50°C/23-122° F
Relative Humidity	95% RH (non-condensing)

## Trouble shooting

Problems	Solutions
Messages cannot be transmitted.	<ol style="list-style-type: none"> <li>1. Check if the communication is normal according to status of LED HL2 and HL3.</li> <li>2. Check if the connection is correct according to Fig. 1.</li> <li>3. Check addresses of control panels in turn.</li> </ol>

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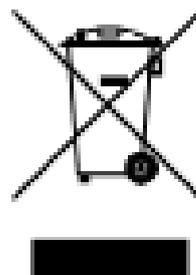
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