

Features

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

Description

- ✧ Refer to GST-IFP2E Fire Alarm Control Panel Installation Manual.
- ✧ P-9957E Modbus card is optional for GST-IFP2E control panel, providing photoelectric isolation interfaces of RS485.
- ✧ This card is NOT hot-swappable.
- ✧ Refer to the control panel manual for following settings.
 - 1) Set the default NONE to Modbus on the corresponding slot, keep the slot address consistent with the card address configured with pins XT1 and XT2
 - 2) Set address of the control panels in the system.
- ✧ LEDs

P-9957EA Modbus card has internal RS485, external RS485 ports. If HL4 LED state remains unchanged, it indicates external RS485 port is faulty, If HL5 LED state remains unchanged, it indicates internal RS485 port is faulty, flashing HL4 and HL5 mean that P-9957EA Modbus works normally
- ✧ The loop shouldn't exceed 1200m when RS485 is used.
- ✧ One GST-IFP2E control panel can connect max 2 P-9957E Modbus cards

Connection & Wiring

Fig 1 shows the external connection of P-9957E Modbus.

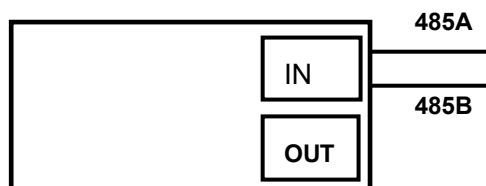


Fig. 1 Modbus Network

Each network card has internally shorted terminals XS1 and XS2, all network cards shall be daisy-chained together using the supplied 4-pin cable via these terminals. At least one terminal from one of network cards must be wired to the 5V terminal(XT9) of the Power Interface Board for power supply and

communication as shown in fig.2.

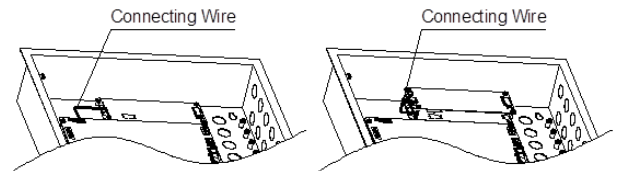


Fig. 2

Installation

Maximum 2 Network cards including P-9967EA CAN Card, P-9957E Modbus Card, P-9957E-RP Repeater card and P-9984EA Fiber Network Card may be used in the panel..

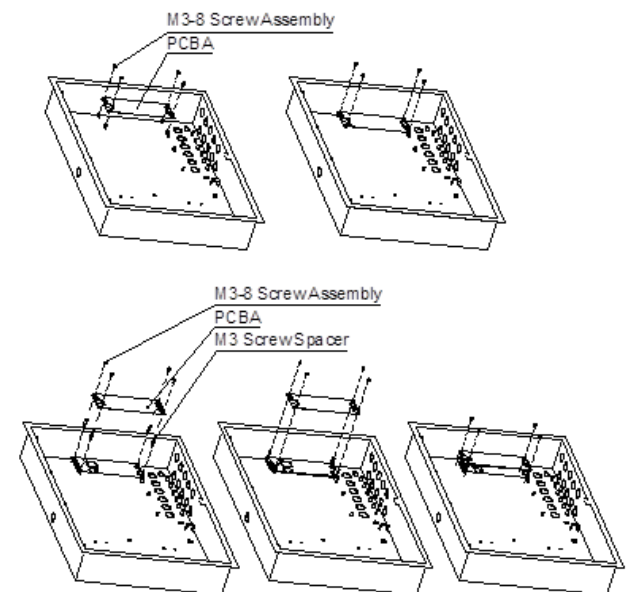


Fig. 3

Application

P-9957E Modbus Card shall connect to Power Interface Board of the control panel either directly or via another network card, as shown in Fig.2. network is formed though twisted pair as shown in Fig. 1.

Specification

Comm. Interface	RS485 interfaces
Comm. Distance	less than 1200m
Transmission Medium	1.0 mm ² 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">1. Check if the communication is normal according to status of LED HL2 and HL3.2. Check if the connection is correct according to Fig. 1.3. Check addresses of control panels in turn.

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Gulf Security Technology Co., Ltd.

No. 80, Changjiang East Road, ETDZ, Qinhuangdao, Hebei, P. R. China 066004

Tel: +86 (0) 335 8502434

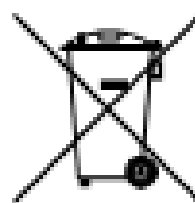
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