GST-IFP4E
Intelligent Fire Alarm Control Panel

Description

GST-IFP4E is an Intelligent Fire Alarm Control Panel (FACP) designed for medium- to large-scale facilities. It complies to EN54 standard with features of easy installation, operation, and maintenance. It integrates an ARM9-Cotex CPU with inbuilt Linux OS. Its friendly and graphical screen can be touchable in operation.

Features and Benefits

- 7-inch Touch Screen, 800 x 480 resolution
- Support 1-6 loops in Class A style (additional battery box is required if 6 loops fully loaded)
- 242 addressable devices per loop mixing various types of devices, Max. 1452 addresses
- Max 8 ZCP panels ,each panel with individual programmable buttons & LED indicators.
- Multi-language support
- Graphic Cause and Effect programing AND, OR, NAND,NOR logic, support virtual variable

- Auto learn panel hardware configuration and loop devices, device type mismatch notice
- Detector chamber dirty level reporting, adjust dirty level threshold
- History records of 100,000 events
- "Walk test", silent or audible
- Type A Type B Positive Alarm Sequence
- E-mail notification
- USB port for loading project database and firmware update
- Programing via PC or panel keypad and touch screen
- Support USB dongle for securing project database
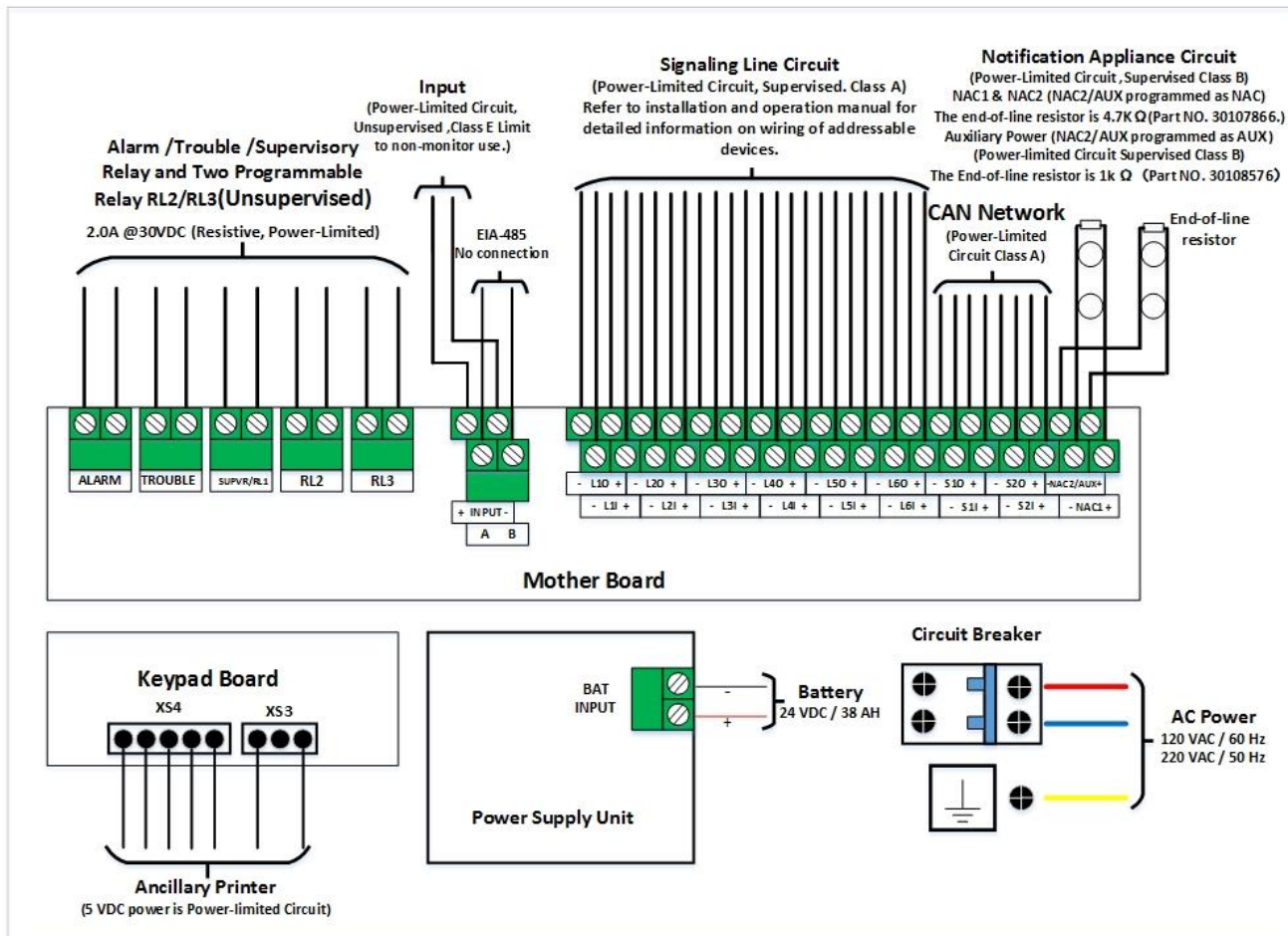
Recommended Cabling

Loop: Max. 1300m with 16AWG or 2000m with 14AWG

Network: 2500m with 1mm² or 3000m with 1.5mm² for CAN class A
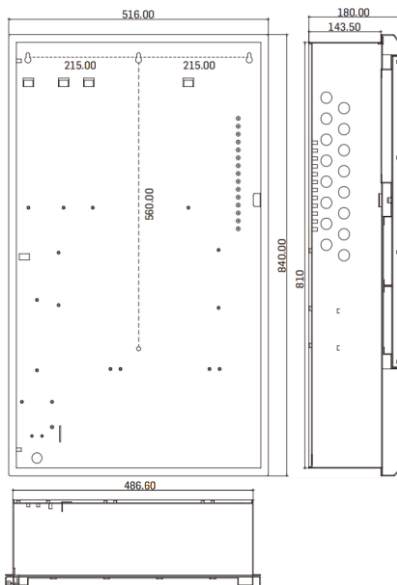
Fire Alarm & Relay outputs: Min. 2.0mm²

All cables should be fire rated and follow local codes

DS10105308

https://www.gst.com.cn/en/about.asp

Basic System Connection

Alarm /Trouble /Supervisory Relay and Two Programmable Relay RL2/RL3(Unsupervised)
2.0A @30VDC (Resistive, Power-Limited)

Input
(Power-Limited Circuit, Unsupervised ,Class E Limit to non-monitor use.)

EIA-485
No connection

Signaling Line Circuit
(Power-Limited Circuit, Supervised. Class A)
Refer to installation and operation manual for detailed information on wiring of addressable devices.

Notification Appliance Circuit
(Power-Limited Circuit ,Supervised Class B)
NAC1 & NAC2 (NAC2/AUX programmed as NAC)
The end-of-line resistor is 4.7K Ω (Part NO. 30107866.)
Auxiliary Power (NAC2/AUX programmed as AUX)
(Power-limited Circuit Supervised Class B)
The End-of-line resistor is 1k Ω (Part NO. 30108576)

CAN Network
(Power-Limited Circuit Class A)

End-of-line resistor

ALARM | TROUBLE | SUPVR/RL1 | RL2 | RL3

+ IN PUT -
A   B

- L1O + | - L2O + | - L3O + | - L4O + | - L5O + | - L6O + | - S1O + | - S2O + | -NAC2/AUX+
- L1I + | - L2I + | - L3I + | - L4I + | - L5I + | - L6I + | - S1I + | - S2I + | - NAC1 +

Mother Board

Keypad Board
XS4   XS3

Ancillary Printer
(5 VDC power is Power-limited Circuit)

BAT INPUT

- +

Battery
24 VDC / 38 AH

Power Supply Unit

Circuit Breaker

AC Power
120 VAC / 60 Hz
220 VAC / 50 Hz

Installation Data

GST-IFP4E can be flush-mounted or wall-mounted.

516.00
215.00   215.00
560.00
840.00
810
143.50
180.00
486.60

Compatible Devices

Detectors	DI-9101E, DI-9102E, DI-9103E, DI-9105, I-9101, I-9102, I-9103, I-9104, I-9105R, I-9602LW-NG/LPG, DI-9105Exd, DI-9104Exd, D-9107Exd
Manual Call Point	DI-9204E, DI-9204Exd
Modules	DI-9300E, DI-9301E, DI-9302E, DI-9305E, DI-9319E, I-9332, I-9333, I-9309, I-9300, I-9301, I-9303, I-9300S, I-9301S
Sounders & Strobes	I-9401N, I-9403, I-9404, C-9403, C-9404
Loop Isolators	DC-9503E,DC-9504E
Sounder Base	DI-9405,DI-9406

Technical Specification

Primary Supply	110VAC~230VAC, 50/60Hz,3.0A~1.4A(Maximum Alarm)
Battery	Two 12V / 38Ah sealed lead-acid batteries, Max. Two 12V / 65Ah (additional battery box required)
Loop Capacity	1 ~ 6 loops
Device Capacity	242 addresses per loop
Loop Parameter	Voltage: Nominal 24VDC Average current: 130mA Maximum alarm current: 300mA Maximum wiring resistance: 18ohms (each line)
Fire alarm and AUX outputs	Fire alarm and AUX outputs Class B, Power-limited Output Voltage: Nominal 24VDC Max. Current: Totally 2.5A
Input Rating	Maximum current: 1.7mA (short circuit)
Printer	Thermal, ASCII code printer
LCD Display	7" TFT touch screen, 800x480
Network Nodes	Max. 250 panels
PC Port	LAN/USB interface
Protection	IP30
Operating Environment	-5~50°C, ≤93% RH, non-condensing
Dimensions	516mm(W) x 840mm(H) x 180mm(D)

Accessories and Tools

Product NO.	Part NO.	Item Name
20103030	LC-401E	Single Loop Card
20103031	LC-402E	Dual Loop Card
20103576	MP-401E	CPU Card
20103481	P-9966EA	CAN Network Card
20103448	P-9983EA	Fiber Network Card
20103482	P-9956E-Modbus	Modbus Card
8000002	TCP/IP Networking License	Networking License
20103584	P-9981E	Zone Display Panel, Bi-color LED x40
20103578	P-9981FE	Zone Display Panel, R-LED x20, Y-LED x20
20103582	P-9982E	Zone Display & Control Panel, Bi-color LED x40, Button x20
20103579	P-9982FE	Zone Display & Control Panel, R-LED x20, Y-LED x20, Button X20
10106273	GST-NR2EC	Network Repeater
10106274	GST-NR2EF	Network Repeater
20102892	PR-400B	Thermal Printer

Certificates and Compliance

- Standards: EN54-2, EN54-4
- Certifications: LPCB

Order Information

Part NO.	GST-IFP4E
Device Name	Intelligent Fire Alarm Control Panel
Product NO.	10105038

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