

FC1861/FC1862/FC1863 Controller (Interlocking) Technical Sheet

- FC1861 controller with 2 line card, max. 504 points
- FC1862 controller with 4 line card, max. 1008 points
- FC1863 controller with 6 line card, max. 1512 points
- Panel can be extent up to 8 line card, max. 2016 poinss
- Each line card can be used as a full loop with 252 point of two stub (sub-loop) the total point of 02 sub loop should not over 252 point

Characteristic

- Fulfill Chinese Standard of GB4717-2005 and GB16806-2006.
- Multi-language operation menu with windows style, easy and fast operation.
- Shortcut key (right key) for popping out operation items of device/event.
- Large memory space for up to 10000 history records, first in first out order, all events can be recorded during the operation period.
- LCD backlight Auto-off mode. When there is no operation or event to display within preset time, LCD backlight will be automatically turn off. When there are events / operations, LCD will light up automatically to display events and/or interlocking devices.
- 2 channels of programmable input/output (output: 40mA@24VDC, it can be programmed as general alarm output or general trouble output; input: dry contact).
- 1 channel of NAC for audible and visible device (0.5A@24VDC).
- 8 channels of interlocking function (output: 40mA @ 24VDC) for automatic control and manual operations of control equipments.
- Efficient group programming according to different using.
- A FC186x controller can connect up to 2016 points by adding line card.
- Network bus (FC18-BUS), the max. distance is 1000m (the twist wiring capacity is 1.0 to 1.5 mm²). Up to 32 controllers can be networked.
- FRT bus (FR18-BUS), the max. distance is 1000m (the twist wiring capacity is 1.0 to 1.5 mm²). Up to 32 floor repeater displays can be networked.
- Detection bus (FD18-BUS), 2-wire polarity-free, the max. loop distance is 2500m, the max. stub distance is 1500m. (the twist wiring capacity is 1.0 to 1.5 mm²)
- Three user levels for different operation authority. Each user level is accessed by a pre-defined and changeable password.

- Convenient pluggable terminals with clear marks for field wiring.
- Auto-mapping function to support on commissioning task.
- Detection algorithm can be adjusted by controller according to environment, to provide high reliability of alarm and reduce false alarm.
- Programming can be done either directly on controller or through computer.
- “Sticker Method” easy for commissioning on site.

Structure

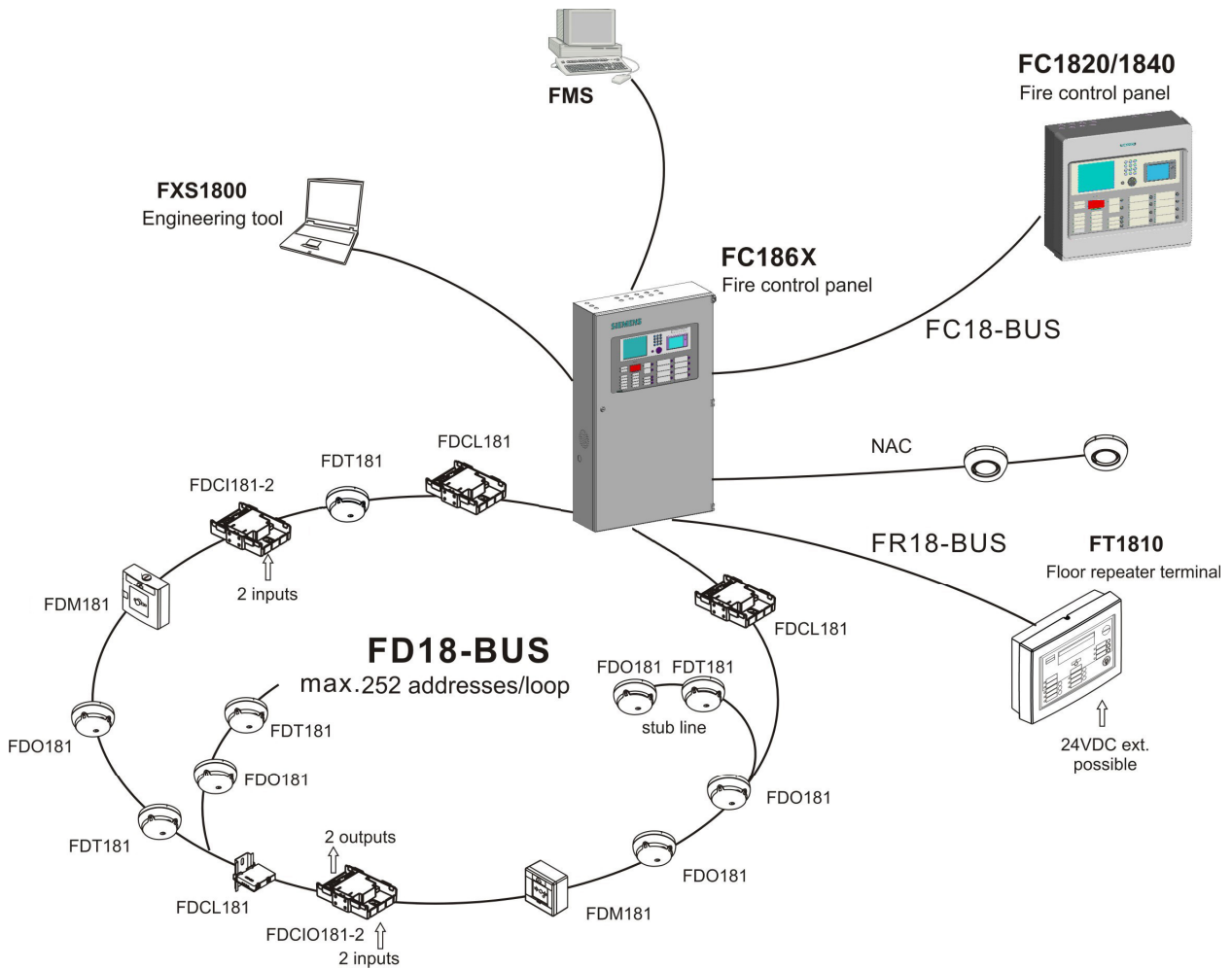


Fig. 1 System structure

COMPATIBLE EQUIPMENT LIST

No.	Type	Description
1.	FDT181	Heat detector
2.	FDO181	Smoke detector
3.	FDM181	Manual call point
4.	FDCI181-2	Input module
5.	FDCIO181-2	Input/output module
6.	FT1810	Floor repeater display
7.	FDCL181	Isolator
8.	FDCI183	Transponder (conventional module)
9.	FT1811	Addressable Mimic Driver
10.	FTM1811	Addressable Mimic Display Board

Operation Panel

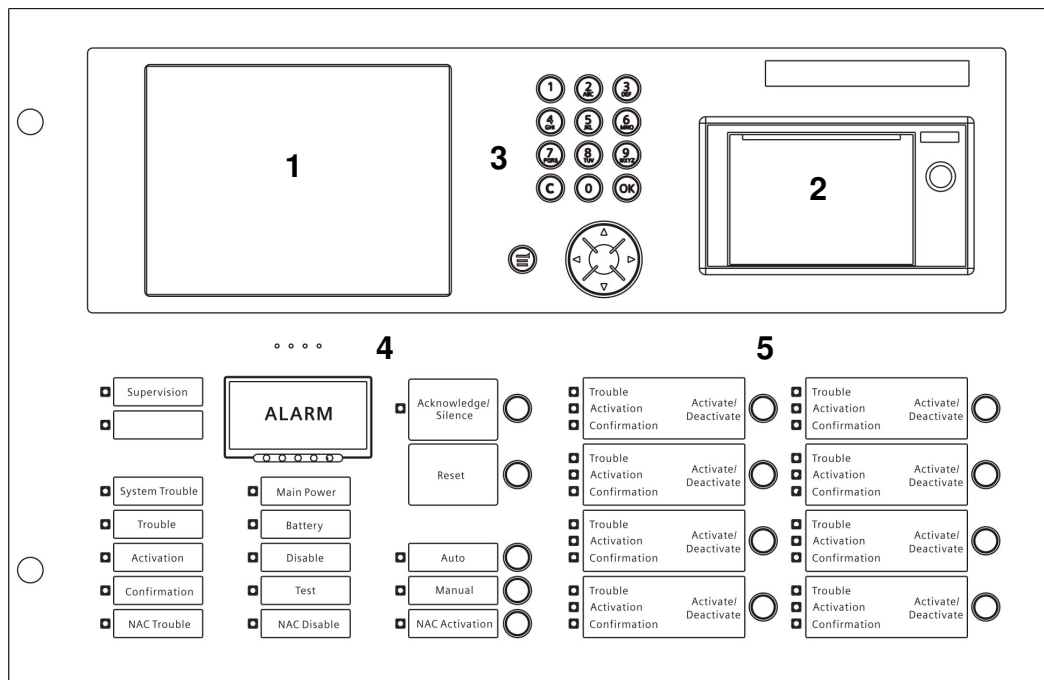


Fig. 2 Front overview

No.	Name
1.	LCD
2.	Printer
3.	Keyboard
4.	Indicators and keys
5.	Interlocking

Installation

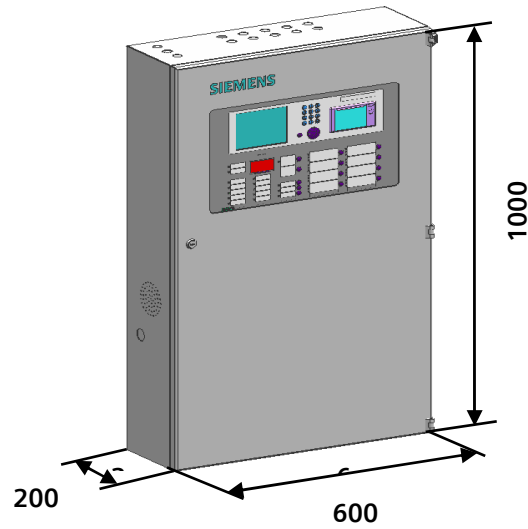
Installation must comply with the local regulation!

Procedure:

1. Ensure the wall is dry, clean, flat and firm in which the controller is installed.
2. Chose a proper installation location to make sure the front door can be opened smoothly.
3. Mark the drillings for 4 installation holes on the wall. (Fig. 3)
4. Drill the holes, put expansion bolts in and insert the M6 screws.
5. Break the cable entries on the controller.
6. Hang the controller over those screws.
7. Insert cables into the controller.
8. Open the front panel and tighten the screws to fix the controller on the wall.
9. Connect cables to the terminals according to Fig. 3, 4, 5, 6, 7, 8, 9.
10. Install and secure the batteries properly.
11. Close the front panel. Lock it with special tools and store the tools in safe place.

Dimension

In: mm



Specification

Operating voltage	110 VAC/60Hz, 220 VAC/50Hz
Operating temperature	0 ... +40 °C
Storage temperature	-10 ... +50 °C
Relative humidity	≤95 % rel.
Battery	12 VDC, 25 Ah×2
Terminals	1.0 ... 1.5 mm ²
Environment requirement	Indoor

Order Information

Type	Order No.	Designation	Weight
FC1861-A2	S54420C5-A1	Controller (Interlocking)-504points	33.5Kg
FC1862-A2	S54420C6-A1	Controller (Interlocking)-1008points	33.75Kg
FC1863-A2	S54420C7-A1	Controller (Interlocking)-1512points	34.00Kg
FC1802-A2	100734114	Extension Line card	0.075Kg