SIEMENS

FT1810 Floor Repeater Display
Product Manual

Overview

The floor repeater display is an indication and operation unit in a fire detection system with the following functions:

Indication of events
- Alarm
- Trouble

Operation
- Scrolling through lists
- Switch off buzzer

The display on the floor repeater terminal is synchronized with the fire control panel of the area and displays the same event texts.

Characteristic

- Small floor repeater operating and display panels for use with the addressed FC18 fire detection system
- Large backlight LCD display(192X64) whose contract can be set manually
- Communication with controller via FR18-BUS (individual addressing)
- Additional 24 VDC power supply necessary
- In total, up to 32 floor repeater displays can be connected to the FC18 fire control panel
- Flat, elegant housing

Function

- Display of alarms, troubles event (252 items at most)
- Same message layout as with the fire control panel
- With the navigation keys an indicated list in the display can be scrolled through
- The internal buzzer can be switched off manually in case of alarm

Application

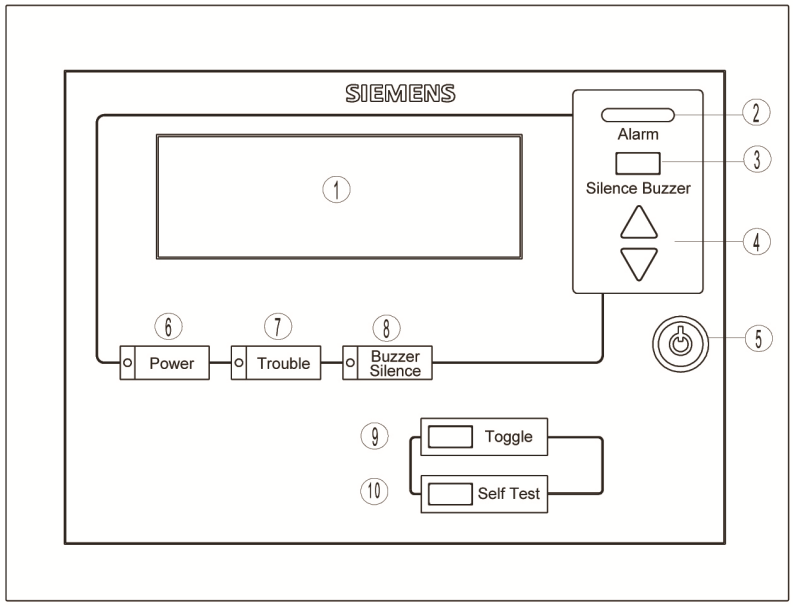


Fig.1 Front view

No.	Name	Function
1.	LCD	Display of alarms and faults –Manu: manual alarm –Auto: automatic alarm
2.	Alarm	light up in case of fire
3.	<Silence>	Silence
4.	<Query>	Query alarm/fault information forward/backward
5.	Lock	Open/close front panel
6.	Power	Light up when power supply is normal
7.	Trouble	Light up in case of trouble
8.	Silence	Light up when silence is pressed
9.	<Switch>	Switch query between alarm and trouble
10.	<self-check>	Check work status of LCD, indicators and buzzer

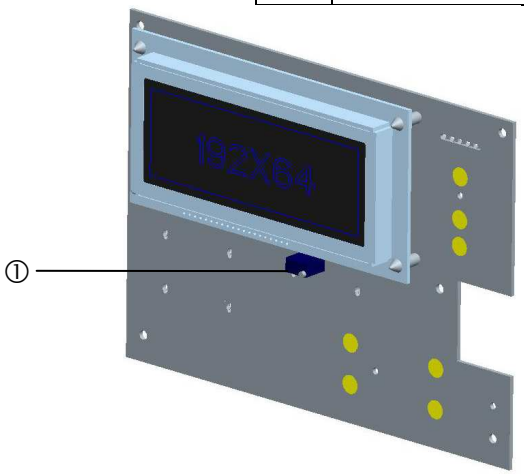


Fig. 2 Front view of PCB panel

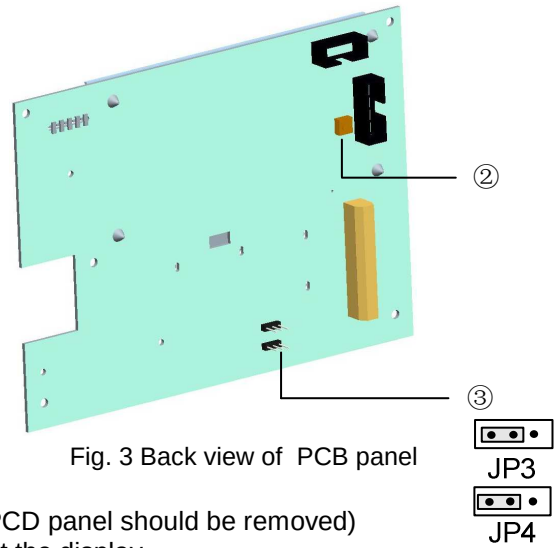


Fig. 3 Back view of PCB panel

Note:
1. Used to set contrast of LCD (PCD panel should be removed)
2."Reset": press for 5 sec to reset the display
3. Jumper: the resistance is 120Ω when jumper switch is at the position as shown in the figure

DIP switch

8-digit Dip-switch for setting the address of floor indicator which can represent address 0-31 with first five digits valid, last two ones idle, the 8th digit is “On”.

Address	DIP switch					Normally off		
	1	2	3	4	5	6	7	8
0	Off	Off	Off	Off	Off	Off	Off	On
1	**On**	Off	Off	Off	Off	Off	Off	On
2	Off	**On**	Off	Off	Off	Off	Off	On
3	**On**	**On**	Off	Off	Off	Off	Off	On
4	Off	Off	**On**	Off	Off	Off	Off	On
5	**On**	Off	**On**	Off	Off	Off	Off	On
⋮								
31	**On**	**On**	**On**	**On**	**On**	Off	Off	On

Installation

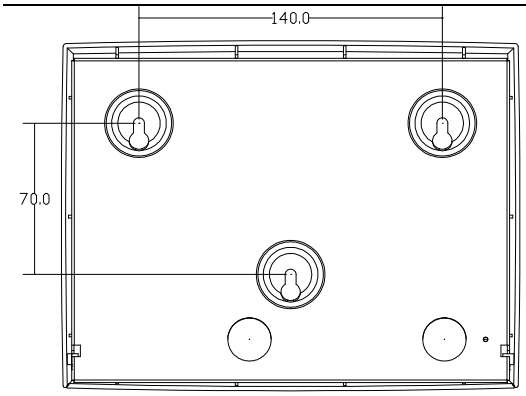


Fig. 4 Dimension (In：mm)

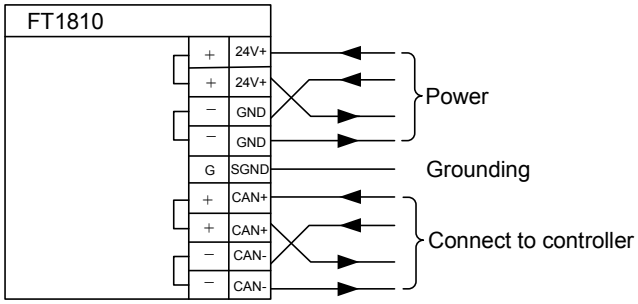


Fig. 5 Connection

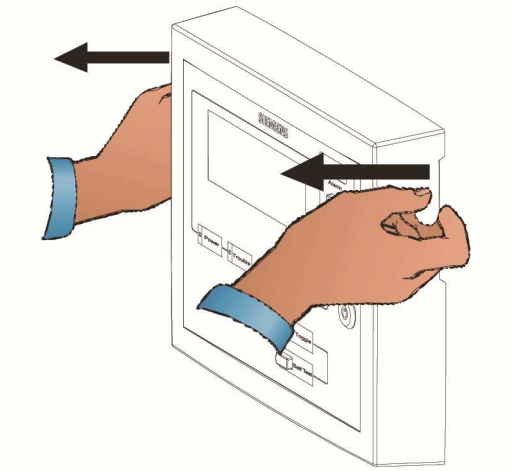


Fig. 6

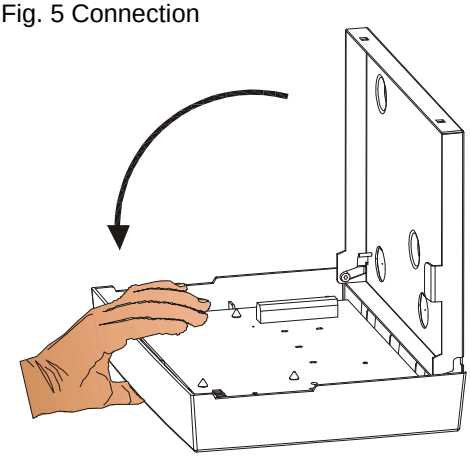
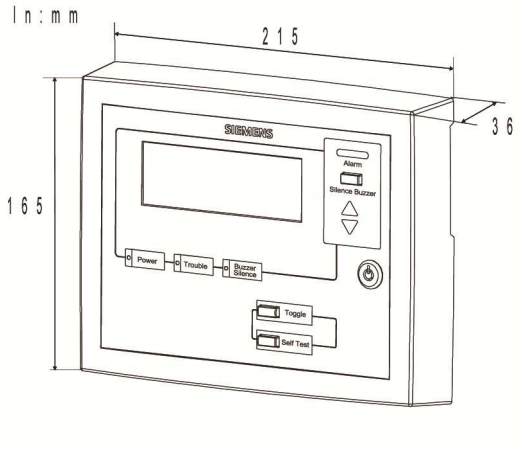


Fig. 7

1. Insert the loop line and external power wire through the floor repeater display.
2. Mark the drillings for the 3 dowel openings on a flat wall, drill the holes, put expansion bolts in and insert the screws loosely (Fig. 4).
3. Hang the floor repeater display on those screws through the waist-shape holes.
4. Open the front panel (Fig. 6/7), (make sure the bolt is on the open position) and tighten the screws.
5. Connect the cables to the terminal in accordance with the connection diagram (Fig. 5). The terminal equipment of CAN bus is required to be parallel connected with a resistance of 120Ω, which can be achieved through internal jumper of FT1810 (Fig. 3).
6. Close the front panel.
7. Lock it with the key. Remove the key and put it away.

Dimension



Technical data

Operating voltage	24 VDC±20% (19.2 … 28.8 VDC)
Operating current (quiescent)	30 mA
Activation current	110 mA
Operating temperature	0 ... +42 ℃
Storage temperature	–20 ... +60 ℃
Humidity	≤95 % rel.
Communication protocol	FR18-BUS(CAN-BUS)
Connection terminals	1.0 ... 1.5 mm^2
Color	White, RAL 9010
Protection category GB4208-93	IP30

Details for ordering

Type	Material No.	Part No.	Designation	Weight
FT1810	S54420-F3-A1	100856216	Floor repeater display	0.75 Kg

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