



FSD901-U2



FSD901-R2



FSD901-R2



FSD901-R3

## FSD901-U2/ FSD901-R2/ FSD901-U3/FSD901-R3 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
- Supervisory
- Status

#### Operation

- Scrolling through lists
- Reset
- Acknowledge
- Unsilence
- Silence

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

### Characteristic

- Small floor repeater operating, and display panels applied in FC2005/FC901 fire detection system
- Large backlight LCD display(160X64)
- Communication with controller via RS485 (individual addressing)
- Additional 24 VDC power supply necessary
- In total, up to 8 FSD can be connected to a fire control panel
- Access control by key
- Flat, elegant housing

## Function

- Display of alarms, troubles, supervisory and status event
- Same message layout as 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 by pressing button “Acknowledge”
- Reset events displayed on the FSD
- Silence and unsilence

## Application

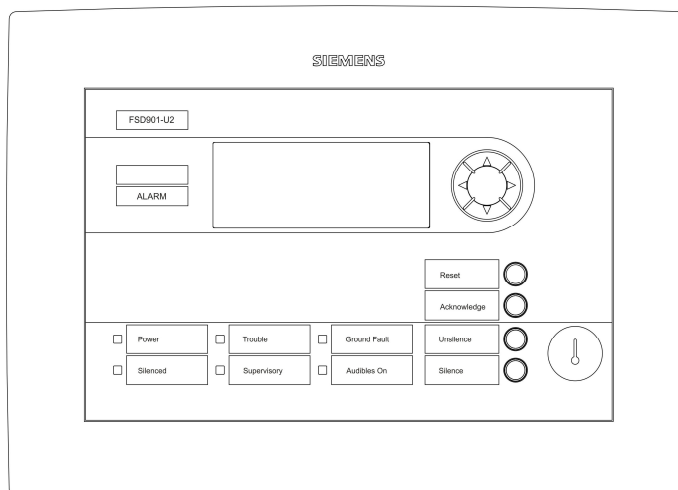




Fig.1 Front view

No.	Name	Function
1.	LCD	Display of alarms, troubles, supervisory and status
2.	Alarm	Light up in case of fire
3.	Four-way button	For menu navigation
4.	Power	Light up when power supply is normal
5.	Trouble	Light up in case of trouble event
6.	Ground Fault	Light up in case of ground fault event
7.	Silenced	All activated silenceable devices are silenced
8.	Supervisory	Light up in case of supervisory event
9.	Audibles on	Light up when NAC or silenceable device is activated
10.	<Reset>	Clear all events
11.	<Acknowledge>	Acknowledges unacknowledged events
12.	<Unsilence >	All silenced devices are activated again
13.	<Silence >	Silence all activated silenceable devices
14.	Lock	Set user access level by key

## User Level

FSD floor repeater display control access right through lock on door. There are two user levels for access right:

User level	Lock key position
L0	
L1	

The operation items for L0/L1 are listed as below:

Items	L0	L1
View real time events	√	√
Acknowledge	-	√
Reset	-	√
Silence	-	√
Unsilence	-	√
Lamp test	-	√

## Operation

Task	Operation
View real time events	1. Press "↓" / "↑" to navigate a real time event. 2. Press "←" to return to first event.
Lamp test	Press both "Silence" and "Unsilence" button for 5s to do lamp test.
Acknowledge or reset events	Press "Acknowledge" or "RESET".
Unsilence devices	Press "Unsilence", all silenced devices are activated again.
Silence devices	Press "Silence", silence all activated silenceable devices.

## Address and Baud Rate

8-digit Dip-switch S1 is used for setting the FSD901 address and Baud Rate Setting. The first 1-4 digits is for setting the FSD901 address 1-8, the 7-8 digits is for setting RS485 communication baud rate. The 5 and 6 digits are reserved for future use.

Address	DIP switch			
	1	2	3	4
1	On	Off	Off	Off
2	Off	On	Off	Off
3	On	On	Off	Off
4	Off	Off	On	Off
5	On	Off	On	Off
6	Off	On	On	Off
7	On	On	On	Off
8	Off	Off	Off	On

Baud Rate	DIP switch	
	7	8
9600 bps	Off	Off
19200 bps	On	Off
38400 bps	Off	On
115200 bps	On	On

FC2005 and FC901 can only support 19200 bps, other options reserve for future usage.

## EOL Resistor

2-digit Dip-switch S20 is used for setting EOL resistor of RS485.

1 and 2	On: Internal EOL resistor is connected
1 and 2	Off: Internal EOL resistor is disconnected

For RS485 Class A, loop mode, no EOL resistor is needed.

For RS485 Class B, stub mode, internal EOL resistor of the repeater display at the end of RS485 must be connected.

## Installation

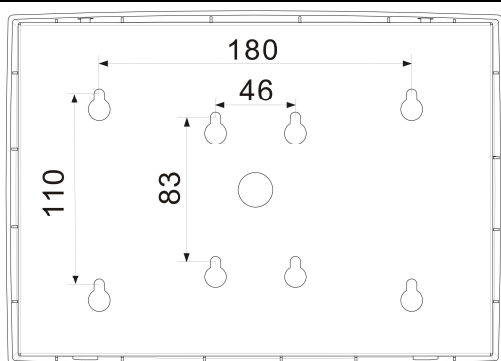


Fig 2 Dimension (mm)

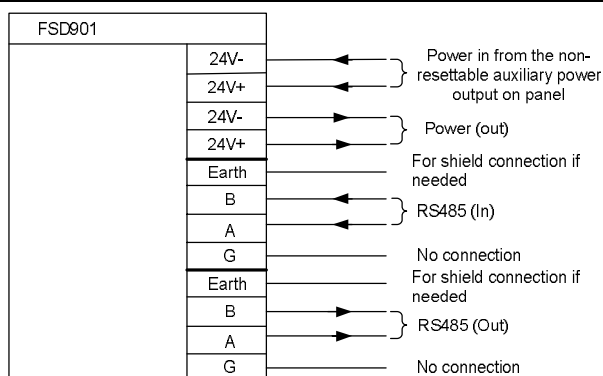


Fig 3 Connection

### Note:

- Point G is not used for any connection.
- Power in from the non-resettable auxiliary power output on panel.

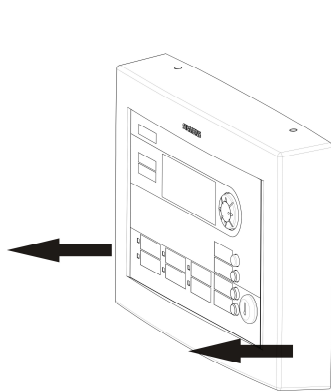


Fig 4

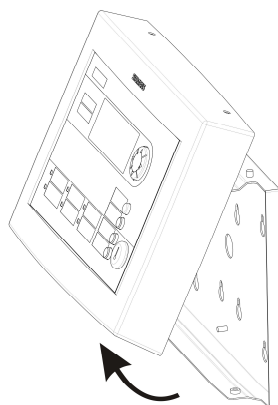


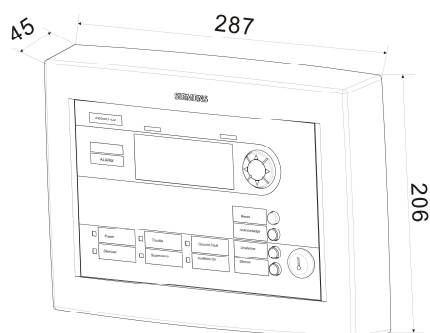
Fig 5

1. Insert the loop line and external power wire through the floor repeater display.
2. Mark the position for the 4 installation holes on flat wall (Fig. 2), drill the holes, put expansion bolts in and insert the screws leaving a small gap for hanging the display.
3. Hang the floor repeater display over those screws through installation holes.
4. Open the front panel (Fig. 4/5), tighten the screws and make sure the display is fixed firmly.
5. Connect cables to terminals referring to the connection diagram (Fig. 3). Correctly set the internal 120Ω EOL resistor referring to the section "EOL Resistor".
6. Close the front panel.



FSD connects to separate power supply, which needs to be UL Listed for Fire Safety Use and Power Limited.

## Dimension (mm)



## Technical data

Operating voltage	24 VDC nominal / 19...28 VDC
Operating current (quiescent)	60 mA
Activation current	70 mA
Operating temperature	0...+49 °C
Humidity	≤93% rel.
Communication protocol	UFP (RS485-BUS)
Connection terminals	14-18 AWG
Color	Black / Red
Operating location	Indoor / dry

## Details for ordering

Type	Material No.	Part No.	Designation	Weight
FSD901-U2	S54433-C102-A4	100935670	Desigo system display (black)	1.5 kg
FSD901-R2	S54433-C102-A3	101061934	Desigo system display (red)	1.5 kg
FSD901-U3	S54433-C102-A1	101061935	Cerberus system display (bl)	1.5 kg
FSD901-R3	S54433-C102-A2	100935673	Cerberus system display (red)	1.5 kg

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