

Wireless panic alarm systems

Building security alarm systems

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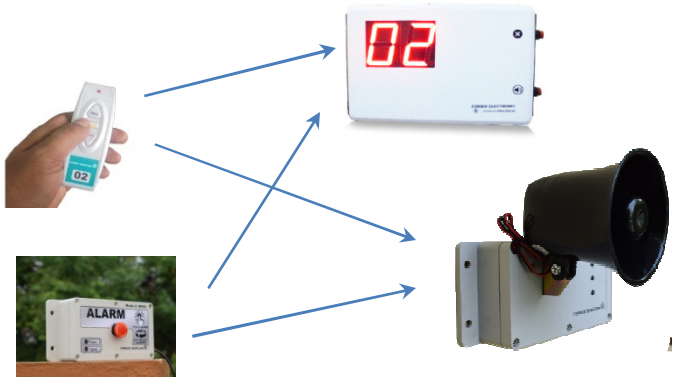
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Wireless panic alarm systems

						
Function	**Receiver display**	**Remote controller, (handheld)**	**Panic alarm button, (wall mount)**	**108db siren for indoors**	**Repeater / booster**	**118db siren for outdoors**
Type	Receiver	Transmitter	Transmitter	Receiver	Transmitter + Receiver	Receiver
Purpose	Indicate attendant / nurse the calling remote number	One per bed / room / table with unique number	At strategic locations in a building (corridors / rooms)	Siren to alert security guard and building staff (usually for indoors)	Communication range enhancer	Siren to alert security guard and building staff (usually for outdoors)
Model no.	FBXCSL02A FBXCSL03A FBXCSL04A	FBX521	FBXTX521B	FBXS01	FBXCSRPT01 FBXCSRPT02	FBXS02
Range of communication	-	20-30 m indoors 100-120 m outdoors (in line of sight)	20-30 m indoors 100-120 m outdoors (in line of sight)	-	FBXCSRPT01 20-30 m indoors 100-120 m outdoors FBXCSRPT02 50-60 m indoors 200-400 m outdoors	-
Enclosure type	Indoor purpose only	Indoor purpose only	ABS (weather proof)	ABS (weather proof)	Indoor purpose only	ABS (weather proof)
Power supply	Adapter 12V	Battery 12V	Adapter 12V	Adapter 12V	Adapter 12V	Adapter 12V
Warranty	1 year	1 year	1 year	1 year	1 year	1 year
Application	Residential / commercial	Residential / commercial	Residential / commercial	Residential / commercial	Residential / commercial	Residential / commercial

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Panic button transmitter

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Specifications

Model: **FBX521B**

Range of communication:
20 – 30 meters indoors
100 – 120 meters outdoors (line of sight)

Wall mount panic alarm button:
Size: 190 x 90 x 55 mm
Weight: 350 gms

Features:
1 button (RED Alarm type) – Emergency calling
1 green light indicator for power supply
1 red light indicator for signal transmission
1 buzzer, blows when call button or emergency RED button pressed

Operating voltage: (12V)
110-220VAC/50-60Hz to 12VDC converter adapter supplied. Unit can also be plugged to any 12V external battery. Active working hours depends on the battery power

RF configurations:
Operating frequency: 380 – 480 MHz
System works on signal hop mechanism. Transmission happens at more than 12-15 predefined frequencies
Modulation type: GFSK
Radio IC: CC1100 (Chipcon/TI) and equivalents in sub-GHz freq.
PA: +10dbm

Signal transmissions:
Make sure to press a button till it gets latched. For deactivation, rotate clockwise to release latch

Application and features:
• Panic alarm in buildings (in case of emergency)



108db Siren alarm

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Specifications

Model: **FBXS01**

Siren alarm (receiver):
Mounted on the top of door of hospital wards / office / patient rooms / guest house rooms / hotel suites etc.
Loud 108db siren sound when panic button is pressed

Wall mount calling unit:
Size: 150 x 90 x 55 mm
Weight: 450 gms

Features:
- 108db loud siren
- 1 indicator RED light in the front
- 1 indicator BLUE SYNC light to check signal reception
- Starts siren on press of panic alarm button
- Stops the indicator on release of panic alarm button

Operating voltage: (12V)
110-220VAC/50-60Hz to 12VDC converter adapter supplied.
Unit can also be plugged to any 12V external battery. Active working hours depends on the battery power

RF configurations:
Operating frequency: 380 – 480 MHz
System works on signal hop mechanism. Reception happens at more than 12-15 predefined frequencies
Modulation type: GFSK
Radio IC: CC1100 (Chipcon/TI) and equivalents in sub-GHz freq.
Receiver sensitivity: – 112 dbm

Application and features:
- Alerts building security or maintenance staff in case of emergency from anywhere inside the building

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118db Siren alarm

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Specifications

Model: **FBXS02**

Siren alarm (receiver):
Mounted on the top of door of hospital wards / office / patient rooms / guest house rooms / hotel suites etc.
Loud 108db siren sound when panic button is pressed

Wall mount calling unit:
Size: 150 x 90 x 55 mm
Weight: 450 gms

Features:
- 118db loud siren
- 1 indicator RED light in the front
- 1 indicator BLUE SYNC light to check signal reception
- Starts siren on press of panic alarm button
- Stops the indicator on release of panic alarm button

Operating voltage: (12V)
110-220VAC/50-60Hz to 12VDC converter adapter supplied.
Unit can also be plugged to any 12V external battery. Active working hours depends on the battery power

RF configurations:
Operating frequency: 380 – 480 MHz
System works on signal hop mechanism. Reception happens at more than 12-15 predefined frequencies
Modulation type: GFSK
Radio IC: CC1100 (Chipcon/TI) and equivalents in sub-GHz freq.
Receiver sensitivity: – 112 dbm

Application and features:
- Alerts building security or maintenance staff in case of emergency from anywhere inside the building

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2-digit

Receiver console station



3-digit

Alternative models



4-digit

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Specifications

Models:
2 – digit receiver: FBXCSL02A
3 – digit receiver: FBXCSL03A
4 – digit receiver: FBXCSL04A

Dimensions and weight:
Size:240 x 165 x 45 mm
Weight: 450-580 gms (2 – 4 digits)
Display (each unit size): 48 x 65 mm

Possible display configurations:
For 2 digits 00, 01, 02, 03, ….. 99. Alphanumeric numbers also possible for 2/3/4 digit displays. Examples, A1, b2, c3, d4, E5, e5, F6, G7, HP01, i28, J452, L89, n02, P6, r412, t5, u58, U12, y8, 3012, 4569, 85A2, etc.

Additional features:
- Volume control knob to module beeping sound
- Number cancellation button
- Display number rotation in round-robin fashion if more than 1 number is called at a time
- Configurable up to 250 individual calling points
- Display self-check at power up

Total number of call points configured:
Maximum possible 250 remotes attached to 1 receiver
Typically 10 to 50 calling remotes for reliable performance

Operating voltage: (12V)
110-220VAC/50-60Hz to 12VDC converter adapter supplied.
Unit can also be plugged to any 12V external battery. Active working hours depends on the battery power

RF configurations:
Operating frequency: 380 – 480 MHz
System works on signal hop mechanism. Reception happens at more than 12-15 predefined frequencies
Modulation type: GFSK
Radio IC: CC1100 (Chipcon/TI) and equivalents in sub-GHz freq.
Receiver sensitivity: – 112 dbm

Applications:
- Nurse call system for hospitals
- OPD token system for dispensaries
- Office peon calling system
- Restaurant waiter call station
- Guest house attendant calling unit



Wireless remote controller



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Specifications

Model: **FBX521**

Range of communication:
20 – 30 meters indoors
100 – 120 meters outdoors (line of sight)

Remote controller (hand held):
Battery operated (12VDC), battery type: 23A
Battery life 2-4 years
Battery replicable: Yes
Remote controller size:120 x 40 x 20 mm
Remote controller weight: 45 gms

Features:
3 buttons (CALL / CANCEL / OPTIONAL)
1 red light indicator on top, glows when any button is pressed
Top button (ON) => send ON/CALL signal to the receiver
Bottom button (OFF) => send OFF/CANCEL signal

RF configurations:
Operating frequency: 380 – 480 MHz
System works on signal hop mechanism. Transmission happens at more than 12-15 predefined frequencies
Modulation type: GFSK
Radio IC: CC1100 (Chipcon/TI) and equivalents in sub-GHz freq.
PA: +10dbm

Signal transmissions:
Make sure to press a button for at least 2-3 seconds for reliable transmission. This increases the range of communication

Application and features:
- Nurse call system for hospitals: remote with patients
- OPD token system for dispensaries: remote with doctors
- Office peon calling system: remote with clerk / manager
- Restaurant waiter call station: remote with customers on table
- Guest house attendant call unit: remote with customers in room

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Repeater (booster)

Specifications

Model:
Normal repeater: model FBXCSRPT01 (without antenna)
High power repeater: model FBXRPT02 (with antenna)

Repeater / booster:
This unit is used to enhance the range of communication. The repeater has a receiving and transmitting unit at its core. It collects the feeble radio signals from the remote control. And then forwards it in the air. It is possible to have multiple repeater units in a building / floor.

Wall mount calling unit:
Size: 160 x 100 x 35 mm
Weight: 230 gms

Features:
- Captures signals from the remote controllers
- Forward the signal in air by increasing the SNR (signal to noise ratio), thereby increasing the range of communication
- Increases the link budget by a factor of +125 dbm
- Indicator on the repeater unit to check for signal reception and forwarding, thereby ease in installation
- Every repeater adds up to a propagation delay of 1-2 secs

Operating voltage: (12V)
110-220VAC/50-60Hz to 12VDC converter adapter supplied.
Unit can also be plugged to any 12V external battery. Active working hours depends on the battery power

RF configurations:
Operating frequency: 380 – 480 MHz
System works on signal hop mechanism. Reception happens at more than 12-15 predefined frequencies
Modulation type: GFSK
Radio IC: CC1100 (Chipcon/TI) and equivalents in sub-GHz freq.
Receiver sensitivity: – 112 dbm
PA: +10dbm

Application and features:
- Increases the range of communication within a floor or even for multiple floors
- It is recommended for 1 repeater every 10 remotes
- High power repeaters for multiple floor signaling

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Remote controller and short range triggering device to long range transmitter

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Specifications

Model:
Panic alarm button: model FBXB01C
Receiver contactor: model FBXCSR01
Remote controller: model FBX521

Panic alarm button and low power transmitter:
This is an alternative method to trigger a siren alarm. This set is used in places like inside the lift car or metallic vehicle. There FBX521B models have weak signal penetration. Panic button (FBXB01C) is inside the vehicle or lift car and WIRED connected to FBX521C transmitters

Wall mount calling unit:
Size: 150 x 90 x 55mm
Weight: 200 gms

Features:
- Transmitter FBX521C and panic button (FBXB01C) are wired connected
- Transmitter unit is in open area, whereas, the panic button is inside an enclosed chamber
- Power indicator, button press indicator, signal transmission indicator

Operating voltage: (12V)
110-220VAC/50-60Hz to 12VDC converter adapter supplied.
Unit can also be plugged to any 12V external battery. Active working hours depends on the battery power

RF configurations:
Operating frequency: 380 – 480 MHz
System works on signal hop mechanism. Reception happens at more than 12-15 predefined frequencies
Modulation type: GFSK
Radio IC: CC1100 (Chipcon/TI) and equivalents in sub-GHz freq.
Receiver sensitivity: – 112 dbm
PA: +10dbm

Application and features:
- If transmitters needs to be hidden in metallic chambers, with no access of RF signals; then this combination of panic button and transmitter helps in solving the problem

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