Wireless Nurse Calling System

Technical Document

[July 2016]

FORBIX SEMICON

FORBIX SEMICON
Bangalore, India

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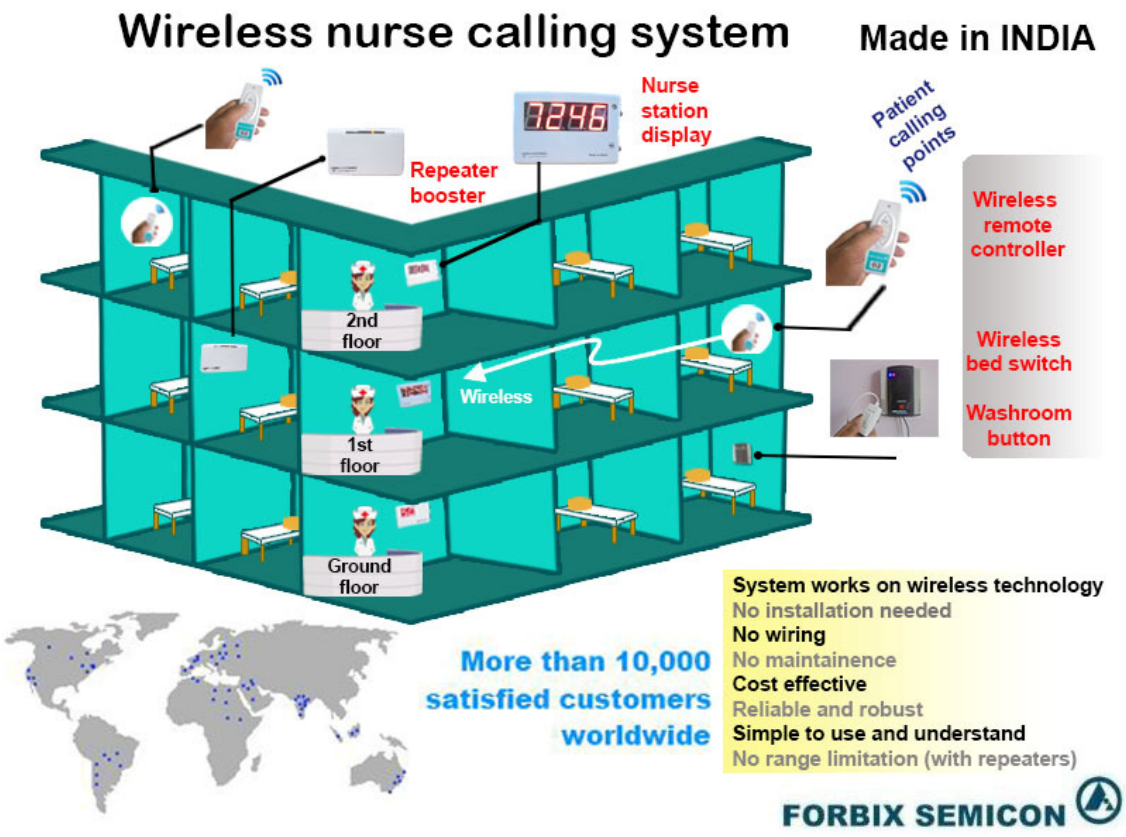
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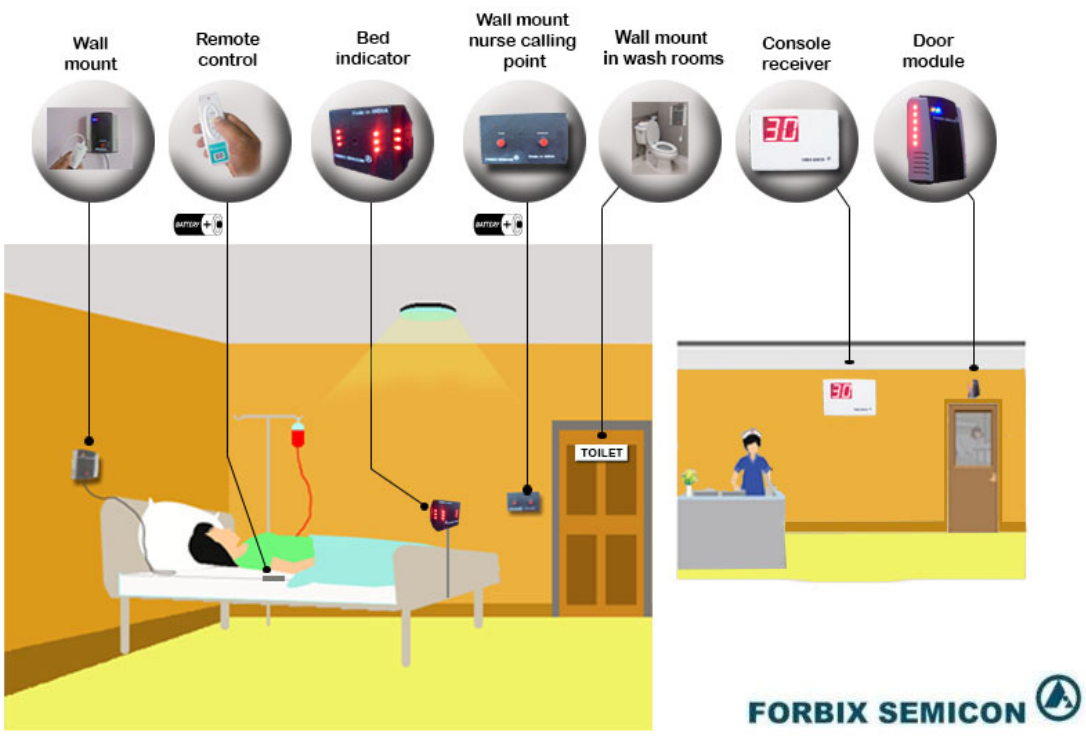
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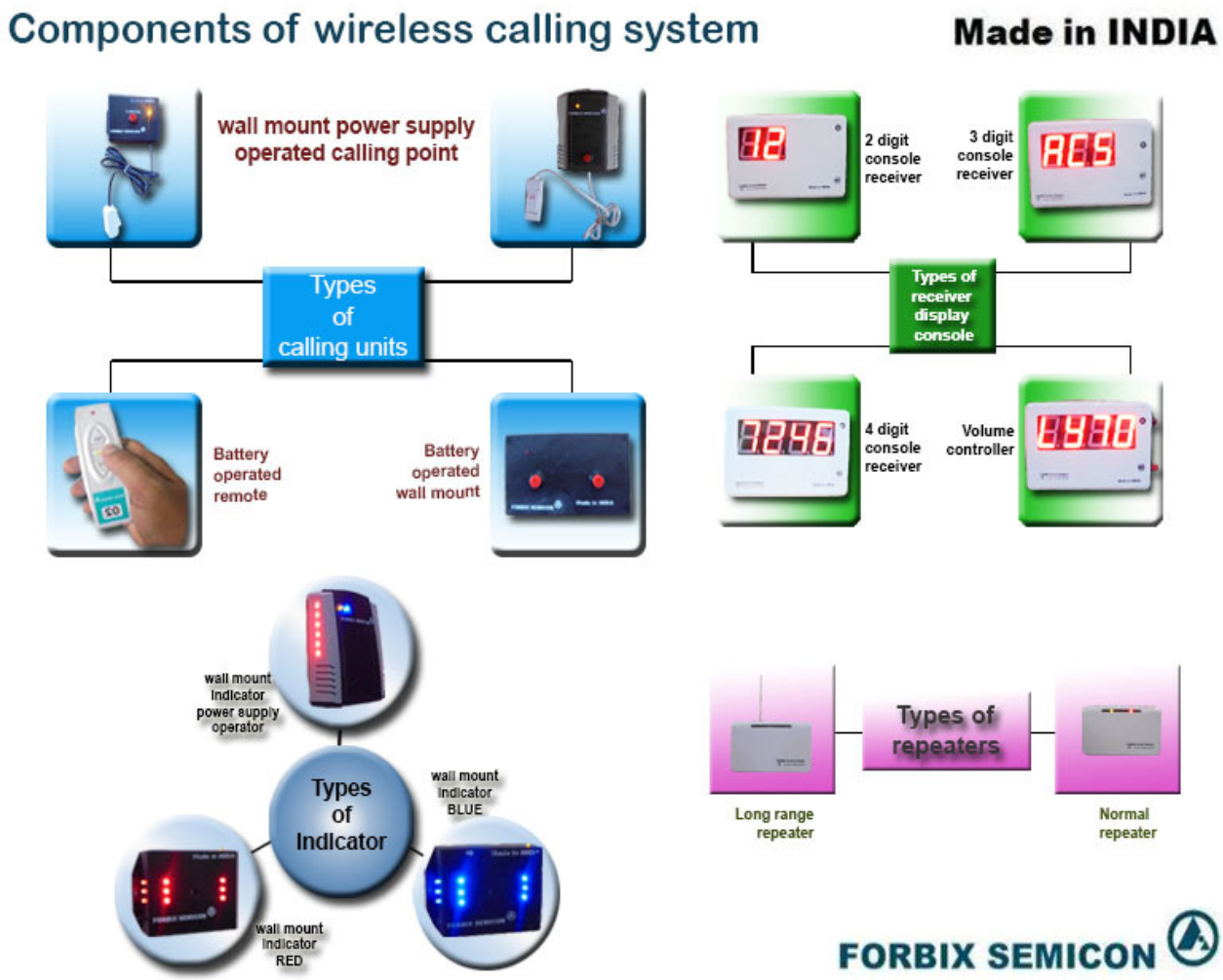
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Wireless Calling System
Made in INDIA
System works on wireless technology
No installation needed
No wiring
No maintainence
Cost effective
Reliable and robust
Simple to use and understand
No range limitation (with repeaters)
Patient calling points
Range enhancer / Booster
Nurse console station
FORBIX SEMICON

FORBIX


Wireless nurse calling system
Made in INDIA
Nurse station display
Repeater booster
Patient calling points
Wireless remote controller
Wireless bed switch
Washroom button
2nd floor
1st floor
Ground floor
Wireless
More than 10,000 satisfied customers worldwide
System works on wireless technology
No installation needed
No wiring
No maintainence
Cost effective
Reliable and robust
Simple to use and understand
No range limitation (with repeaters)
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Nurse call system components, usage model
Made in INDIA
Wall mount
Remote control
Bed indicator
Wall mount nurse calling point
Wall mount in wash rooms
Console receiver
Door module
TOILET
FORBIX SEMICON



Website Links:

http://www.forbixindia.com

Introduction

- **NO Installation**, the nurse calling system is ready to use the very next moment it is powered up
- **NO Maintenance**
- **No Wiring**
- **Simple to use (press button on remote to alert nurse / attendant)**
- **Cost effective** solution (much less cost than wired system, no wiring cost, no installation cost, no maintenance cost)
- Reliable, Useful and cost effective solution
- Floors with even 2 beds or even up to 100 beds can use the facility
- **Running successfully** in more than 500 hospitals, dispensaries and offices across the world (more than 50% only in **India**)

Other salient features of hospital nurse call system:

- Big digital display and Voice Annunciation (visible and audible from 10-30 meters)
- No limitation to the range of communication (repeaters / booster can increase range)
- Remotes can be one room and receiver in another room, with RCC walls in-between
- Long range of communication
- Range can be enhanced to any distance, by intermediate repeaters
- Scalable system. Extra remotes can be added to the existing system
- Aesthetic looks. System is in pure white color with a shiny finish

Nurse Station Console Receiver:

- The display window of the receiver console unit 2-digits, 3-digits, 4-digits
- The calling remote controller number is displayed on the receiver console unit along with a pre-recorded voice message annunciation to alert the nurse / attendant / doctor
- The voice annunciation can be muted by the nurse (if needed)
- Once the patient has been attended (by the nurse), pressing the CANCEL button disengages the call from the console unit
- Multiple calling remote controllers can call the nurse station. It would systematically rotate the display for the called numbers
- Operating Voltage: 12VDC @ 1.5A (adapter is provided along with the set)
- Bright big sized display, digits are visible from distance for even 50-60 meters



Model: **FBXCSL02A**

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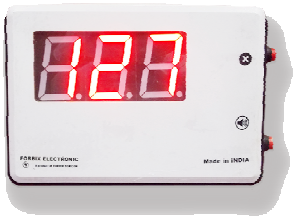
Types of Console Receiver:

4 Digits Console Receiver



Model: **FBXCSL04A**

3 Digits Console Receiver



Model: **FBXCSL03A**

2 Digits Console Receiver



Model: **FBXCSL02A**

Remote Control Patient Calling Unit:

The handy remote controller has 3 buttons:

Top button: To make a CALL / Call a nurse or attendant

Center: Kept empty (optional customized sound like buzzer etc.)

Bottom: To CANCEL a call (patient has been attended)

Operating voltage: 12VDC

Battery type: 23A model /12V Battery life: around 1 year

Battery operated.



Model: **FBX521**

Wall Mount Battery Operated Calling Unit:

This unit can be mounted on the wall or attached to the patient's bed. The remote controller has 2 buttons:

Left button: To make a CALL / Call a nurse or attendant (Optional customized sound like buzzer etc.)

Right button: To CANCEL a call (patient has been attended)

Operating voltage: 12VDC

Red light glows when CALL button is pressed.

Range of communication: 20-30 m indoors and 50 m outdoors (Line of sight).

Battery type: 23A model /12V Battery life: around 1 year.

Battery operated.



Model: **FBX530**

Wall Mount Patient Calling Point:

This unit consists of 2 buttons

One wired button in the hand of the patient to call nurse (CALL button)

Second is the CANCEL button on the unit

When CALL button is pressed beep sound is heard, confirming the press

Operating voltage 12VDC @ 1.5A (adapter is provided along with the set)

Blue light for power on indication

Red light glows when CALL button is pressed.

Power operated (adapter is provided along with the set)



Model: **FBX525**

Varieties of wall mount calling module:



Model: **FBX525**



Model: **FBX535**

Repeaters:

The repeater / booster unit is used to increase the range of communication of the remotes

Any number of repeaters can be installed (preferably in corridors) to cover multi-storey hospitals

There are 2 varieties of repeaters, viz. normal range and long range

Operating voltage 12VDC @ 1A (adapter is provided along with the set)

Power operated (adapter is provided along with the set)



Model: **FBXCSRPT01**

Long Range Repeaters:

The long range repeater/booster unit is used to increase the range of communication of the remotes

Any number of repeaters can be installed (preferably in corridors) to cover multi-storey hospitals

There are 2 varieties of repeaters, viz. normal range and long range

Operating voltage 12VDC @ 1A (adapter is provided along with the set)

Long range repeaters covers double the distance than normal repeaters. This is around 80-90 meters in open air line of sight.

Power operated (adapter is provided along with the set)



Model: **FBXCSRPT02**

Door / Bed Module:

The door module unit is mounted outside the room.

When press the CALL button the door indicator will glow & blink of that particular room to a specific set of remote.

This can also be mounted on the patient's bed to indicate that the patient from the specific room is requesting nurse.

It has light indications on 3 sides of the box (the box needs to be mounted on the wall, on the top of a door)

When CALL button is pressed beep sound is heard, confirming the press.

Operating voltage is 12VDC @ 1.5A.

Power operated (adapter is provided along with the set).

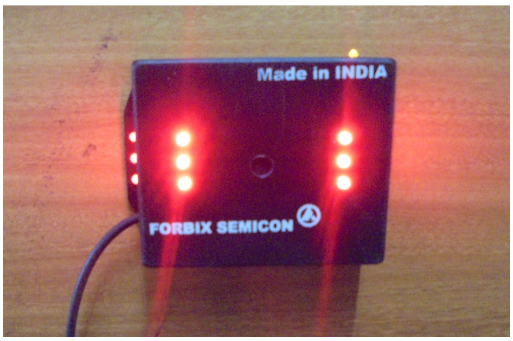


Model: **FBXDM01**

Varieties of door / bed module:



Model No: **FBXCSL12B**



Model No: **FBXCSL12R**

Receiver Console Code Blue:

The nurse call system code blue consists of a (GSM based), mobile SMS sender. Whenever a CALL button is pressed from any of the wireless remote calling units a CODE BLUE sequence is initiated. Under this sequence, the registered phone number of doctors, nurse and attendant gets an SMS and missed calls from the console unit. Apart from this a nurse console station is also located nearby the code blue console unit that continuously displays the called location ID.



Model No: **FBXAD01**

SMS the doctors receive is: "**Ward A: Code BLUE medical emergency // Please attend as soon as possible**"
(The message content can be programmed as per hospital requirement).

Commands to program the code blue console:

***FBXADD*9876543210#** Add the number 09876543210 to receive code blue alert message

***FBXCLR*9876543210#** Remove a particular number 09876543210 from the code blue alter messaging system

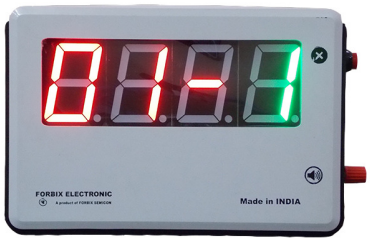
***FBXCHK#** Display the existing registered mobile numbers

***FBXRST#** Clear all registered phone numbers from the console memory

[*In the above example,* ***9876543210*** *is the 10-digit mobile number of the doctor / head nurse / supervisor / manager*]

O.P.D. Display Receiver:

- The display window of the receiver console unit 3-digits and 4-digits
- 3 red digits for token number from 000-999 or 00- to 99-
- 1green digit for room number from 0-9
- Operating Voltage: 12VDC @ 1.5A (adapter is provided along with the set)
- Bright big sized display, digits are visible from distance for even 50-60 meters
- Voice annunciation ding/dong sound
- Unit has internal memory to remember to token number and doctor to be presented to respective user



Model: **FBXCSL04C**

O.P.D. Token Entry Transmitter:

- 5 button, one each for doctor's room number
- Automatic increment of token number
- 3 red digits for token number from 000-999 or 00- to 99-
- 1green digit for room number from 0-9
- Operating Voltage: 12VDC @ 1.5A (adapter is provided along with the set)
- Inbuilt transmitter to inform the 4-digit token display system
- Unit has internal memory to remember to token number and doctor's room to be presented to respective user



Model: **FBXCSL04K**

Use for the intend purpose

The equipment (device, module) may only be used for the application cases specified in the Catalogue and the user manual and only in connection with devices and components recommended and approved by FORBIX SEMICON.

FORBIX SEMICON machines should NOT be opened without prior permission from the manufacturer. Warranty void otherwise.

Exclusion of liability

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9. Document History

Revision / Date	Approved	Description / Changes
July-2012	Yes	Initial Release
Jan-2014	Yes	Added door module and FBX525
May-2015	Yes	Added Code Blue Receiver
May -2016	Yes	Added FBX530, FBX535, FBCSL12B/R and pictures
July -2016	Yes	Modified pictures and added OPD system