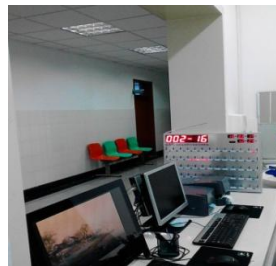# Paging system for Hospital calling system

Background

How to use the advanced information technology to serve the hospital and improve the service quality and profit of the hospital to a greater extent that is an important point in the hospital information construction. In order to **improve the efficiency and service quality** of hospital organizations at all levels, the hospital wireless calling system was created.
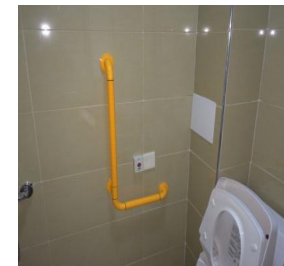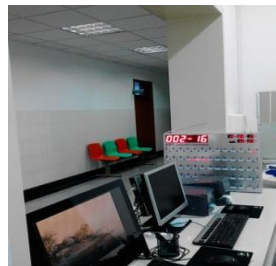
With the development and application of wireless technology, **hospital calling system** can get rid of the shackles of cable, realize instant messaging, and receive call information. Witop hospital calling system is based on wireless technology, can **provide solutions** according to the hospital size, internal business processes and management.

Application

Calling system

●Call buttons are installed near the bed in each hospital room;

●Pager hosts are placed on the table or wall of the medical staff duty room;

●The medical staff can also wear the wrist watch pager;

●the hospital can also install the hanging pager host in the corridor;

1. Patients or family member in each room just simply press the call button if necessary;

2. The pager hosts can simultaneously receive call information and show the room number, remind the medical staff by voice, and then the staff immediately goes to provide services or solve the problems.

System Features

Features:

- Micro power wireless technology, green, non radiation

- All wireless design, without wiring, easy maintenance

- Construction period is short, no construction cost, high tech, high cost performance

- To implement classified calls, it is only 300 milliseconds for the call information to be transmitted effectively

- Call data backup, storage, statistics and analysis, good helper of medical management

- Emergency response, effective response to emergencies, enhance the image, reduce disputes between doctors and patients

Function display diagram

PATIENTS CALL NURSE

1 **Call buttons** are installed near the bed in each hospital room. Patients or family member in each room just simply **press the call button** if necessary.

FST-GP2012CB,FST-GP2017CB callbutton

FST-GP2009W

3 The nurse station install the FST-GP2009TR in the computer to receive the calls from callbutton, software will show the calls number and need

General station

2 Patients press the call button,the watch can receive the calls , and the nurse in the nurse station can receive the calls ,

Function display diagram

Function display diagram

THE DOCTOR CALL THE PATIENT

FST-GP2009W
Doctor wear watch pager for receive the Calls from patient in rooms

FST-GP2009TR transmitter

The doctor press the Calls from the softwar of transmitter to call the patient waiting number to the doctor room

Patients in the waitting room will see the doctors call the waitting number

Install the display screen on the hurdle to display the button call in the ward.

Product introduction – Callbutton

FST-GP2012CB

🐦 Product parameter

4 Keyboard
Inner POCSAG encoder
compatible with pagers
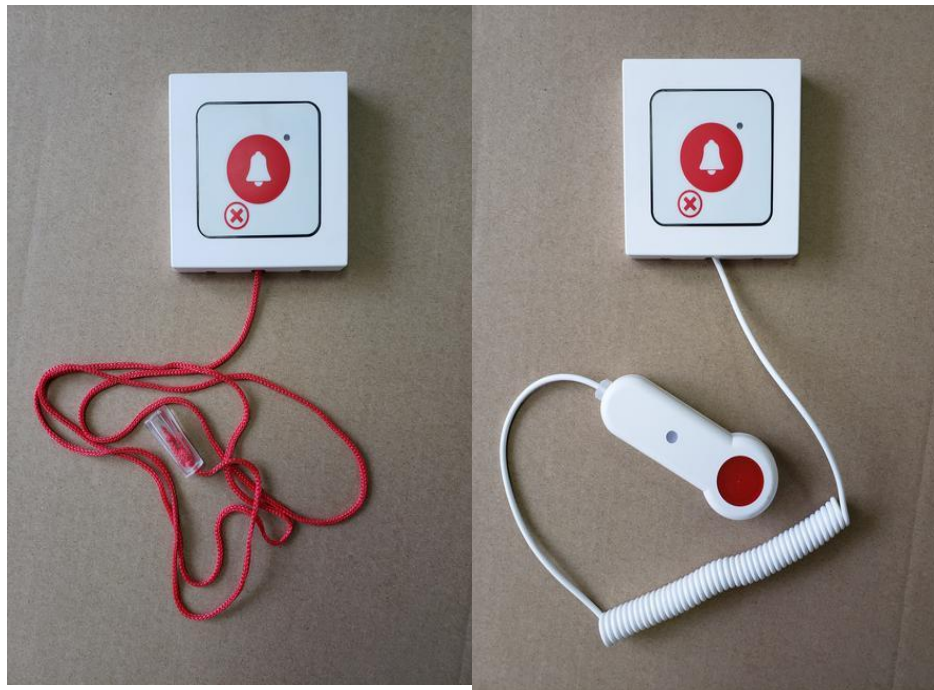TX: 402-470Mhz
Power Output: 10mw max
Battery: 12000 times

Software can be integrated with
your own system

🐦 Function description

●:The distance of this call button is
100 meter indoor, and 300 meter in
the open area.
● It can press more than 12,000
times with only one cell-battery.
●:The sticker can print your own logo
begin from 50 pcs
●:It can integrated with your
software, and we will off the protocal
for you
●: We use FM mode (FSK), that's
really EU standard mode

FST-GP2017CB Call button

★ 2 KEYS, LED and beep indicator.
★ Handle type, line type ,normal type.
★ Cheap battery, Support over 50000 times press.
★ 20DB Max, 300m in open air.
★ User named message display. Automatic delete finished work.

Product introduction – Door light (optional)

FST–GP2019LA

☞ Product parameter

◆Frequency :430-930Mhz
◆DC supported ,18650 Li battery supported.
◆3 colors and color combine.

☞ Function description

● FST-GP2019LA lamp can receive POCSAG message and give assigned color light with sounds. Sounds can set by switch, 3 levers choice. Sound interval and color combine can set by ID program.
●Easy assemble and fixed

Product introduction – Receiver pager(optional)

transVoice

FST-GP2009W

Product parameter

◆1.Hand and PC programmable. USB id programmer.
◆2.PLL or crystal, 137-930Mhz, POCSAG or Flex
◆3.Alert mode: Sound, vibrate, LED, Silent.
◆.4 or 8 line English display, 3 zoom mode (English).
◆.Language support: Chinese, English, Germany, Korean, Turkey, Farsi, French, etc.
◆.Out of range, low battery, repeat message, unread message indicator.
◆.Menu select able, User choice special functions for themselves.
◆.Second watch function

Function description

●Can receiver the calls for the callbuttons, transmitters
●Can show the callnumber and room number of the callbutton
●Can store 40message or calls
●Can receiver the message from transmitter
●Very long battery life, 1time charge can use about 20days , and battery life over 5 years
●Supper signal distance

Product introduction – Receiver pager(optional)

FST–GP2015W

Product parameter

◆1.Hand and PC programmable. USB id programmer.
◆2.PLL or crystal, 137-930Mhz, POCSAG or Flex
◆3.Alert mode: Sound, vibrate, LED, Silent.
◆.4 or 8 line English display, 3 zoom mode (English).
◆.Language support: Chinese, English, Germany, Korean, Turkey, Farsi, French, etc.
◆.Out of range, low battery, repeat message, unread message indicator.
◆.Menu select able, User choice special functions for themselves.
◆.Second watch function

Function description

●Can receiver the calls for the call buttons, transmitters
●Can show the call number and room number of the call button
●Can store 40message or calls
●Can receiver the message from transmitter
●Very long battery life, 1time charge can use about 20days , and battery life over 5 years
●Supper signal distance
●same function as FST-GP2009W, and water proof

Product introduction – Receiver pager (optional)

FST–GP2009N

🐦 Product parameter

◆1.Hand and PC programmable. USB id programmer.
◆2.PLL or crystal, 137-930Mhz, POCSAG or Flex
◆3.Alert mode: Sound, vibrate, LED, Silent.
◆.4 or 8 line English display, 3 zoom mode (English).
◆.Language support: Chinese, English, Germany, Korean, Turkey, Farsi, French, etc.
◆.Out of range, low battery, repeat message, unread message indicator.
◆.Menu select able, User choice special functions for themselves.
◆.Second watch function

🐦 Function description

●Can receiver the calls for the callbuttons, transmitters
●Can show the callnumber and room number of the callbutton
●Can store 40message or calls
●Can receiver the message from transmitter
●Supper signal distance

FST-GP2009TR

Product parameter

◆ Dimensions (no ANT): 110*62*22 mm
◆ Weight (no ANT): 230g
◆ Frequency range TX: 420-470 MHz
◆ Modulation Type: FSK
◆ Channel Spacing: 12.5/25KHZ
◆ Output Power: 2W max
◆ Receiver sensitivity: -103DB
◆ Harmonic Radiation: less – 25dBm
◆ Frequency Stability: 5PPM at -10°Cto 60°C
◆ Output Connect: BNC
◆ Current Consumption Standby: 40mA
◆ Receive: 40mA
◆ Transmit: <1A
◆ Operating Temperature: -10o to 50o C

Function description

●It can be a **pager transmitter**, also can be a **pager repeater** for POCSAG paging system
●Work as a **pager transmitter** in wireless paging system
The coverage of pager transmitter FST-GP2009TR can up to 1km (diameter) with signal booster. If you want to build a wireless communication region within this rang, it is a good choice to use our paging software or yours (as it is a flexibility system), you can send the text message to the pager easily.
●Work as a **signal repeater** in wireless paging system
Sometimes, the region such as hospital, mall, construction site have building or tree to block the signal. Just connect the transmitter with power adapter and fix it in a suitable place, then it work as a signal booster. It is so simple to boost the range of communication.

Product introduction – Transmitter(optional)

FST–GP2011TK

Product parameter

◆ Frequency range TX: 402-470 MHz
◆Modulation Type: FSK
◆Channel Spacing: 12.5/25KHZ
◆Output Power: 0.5-1W
◆Receiver sensitivity: -105DB
◆Harmonic Radiation: less – 25dBm
◆Frequency Stability: 5PPM at -10
◆Celsius~60 Celsius
◆Output Connect: BNC
◆Current Consumption
◆Standby: 50mA
◆Transmit:< 1A
◆Dimensions (no ANT): 170*120*38mm
◆Net Weight (no ANT): 340g
◆Operating Temperature: -10 Celsius to 50 Celsius

Function description

●It can be a **pager transmitter**, also can be a **pager repeater**
●You can simply **send messages** to the pagers by the related number.
●Text messages can also be **edited** by the keyboard.
●If you need to send complicated text messages to the pagers, you can connect it to your **computer** and edit messages by our **free software**.

Product introduction – LED Screen

FST-GP2015PS

Product parameter

◆Voice: Yes
◆Frequency Range: 137-930 MHz
◆Receiver Type: Synthesized
◆Capcodes: 8
◆Baud Rate: 512/1200/2400
◆Paging sensitivity:
◆106DB@1200BPS
◆Channel Spacing: 25 KHz or 12.5 KHz
◆Frequency Deviation: +/-4.5 KHz
◆Frequency Stability: +/- 10PPM
◆Power: 5V, 3A

Function description

●Alpha LED displayer
●PLL or crystal, 137-930Mhz, POCSAG or Flex. (Please **inform us the frequency** you need)
●LED dot matrix, 64*32 or 128*32
●Simple hanging wall or Ceiling installation, install easily
●2 or 4 line display
●**Language support**: English, Germany, Korean, Turkey, Farsi, French, Chinese, etc
●**Sound alert**, **Text read**
●Long screen: 650*168*32mm, 16 characters per line
●Short screen: 345*168*32mm, 8 characters per line
●**et easily** with ID programmer, Message can be entered through public paging system or paging software

Hospital basic information

    Departments number:____, beds number:___,

    Floors number:____,

    Number of nursing stations:___,   Number of nurses___,

    Signal coverage:___floor,

    Signal transmission distance:___m

Hospital specific needs

    To achieve basic bed call function (single call or classified call);

    Emergency call function of toilet;

    Double side display receiver in the corridor;

    Nursing station supervisory function by computer;

    The nurse/doctor immediately receives call information;

    Backup and query function of Call data;

System expense budget

Product name	Models	Quantity	Unit Price	Amount	Remarks
Watch pager	FST-GP2009W				FST-GP2009W,FST-GP2015W,FST-GP2009N is as a receiver to receive the calls from call button
Watch pager	FST-GP2015W				
Normal pager	FST-GP2009N				
Call button	FST-GP2012CB				Call buttons in patients'room,one bed one call button
Callbutton	FST-GP2017CB				Callbutton in the patients'room ,bed or bath room
Door Light	FST-GP2019LA				Door light for alarm the calls from the callbuttons
Transmitter& receiver	FST-GP2009TR				In nurse station ,as a receiver to watch the calls from call button
Transmitter	FST-GP2011TK				Doctor call patient
Total					

System expense budget

Product name	Models	Quantity	Unit Price	Amount	Remarks
LED Screen	FST-GP2015PS				Screen in waiting room to show the call number from doctor
LED Screen	FST-GP2015PS				Install the display screen on the hurdle to display the button call in the ward.
Signal repeater	FST-GP2009TR				It can be a signal repeater to enhance the signal distance
Total					

After-sale service

Product **free warranty for one year**.

If you have any after-sale problems, please contact us first. Batteries, power supplies and other related parts and consumables are not covered by the warranty.