NURSE CALL SYSTEM *Esteem_GSM*

TYPICAL CONNECTION DIAGRAM

CU 17   CU 24   CU 41   CU 48

CALLING UNIT   CALLING UNIT

CALLING UNIT

CU 1   CU 16

NURSE STATION DISPLAY XL - NS_LCD XL

GSM MODEM

PATIENT INTERFACE EXTENDER - PIX

GSM based PATIENT INTERFACE HUB - GPIH
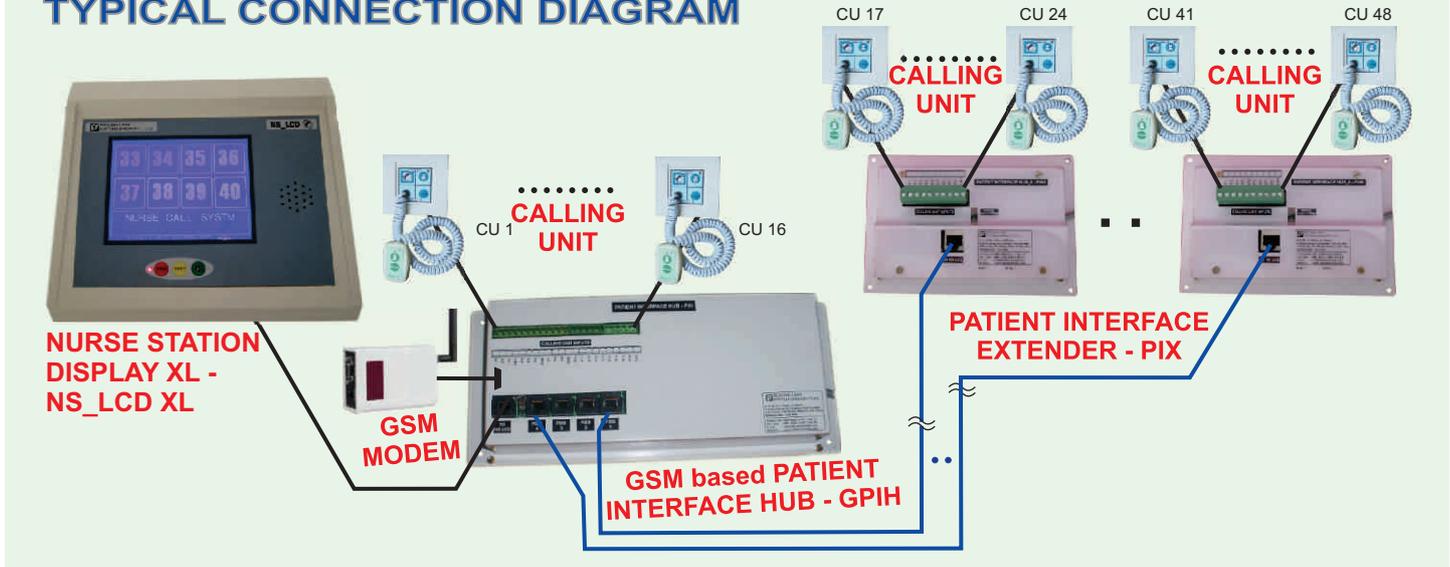
System Features

○ Expandable up to 48 patients with the addition of only low cost modules.
○ Long Pending Call alert is an additional benefit.
○ Different modules in the system can be strategically located to reduce the cabling drastically, since the inter module distances can be several 100 meters.
○ Usage of LCD module allows for dynamically changing the room numbers reducing wall space.
○ Ideal for escalating calls upto three levels and sending SMS to predefined mobile phones.
○ Sends three different preprogrammed messages along with predefined room names / numbers.
○ Every room can be associated with different sets of mobile numbers chosen from a pool of 64 numbers.

Working of *Esteem*-GSM

By touching the switch on the Calling Unit an indicator gets lighted up confirming that your call is passed on, which in turn reaches the Controller/ Display unit and flashes the room number of the patient on it simultaneously, the Voice module in it announces the call which forces the nurse to give immediate attention.

After noticing the call the nurse can silence the voice module by pressing the MUTE button on Controller/ Display Unit which makes the flashing window steady but it will continue glowing unless it is cleared by the nurse from the patient's room using the calling unit. If another patient raises a call, again the same procedure follows independent of the preceding call. NS_LCD Display will show long pending call message if a call is not cleared for a pre-defined time. If a call is pending for longer time than the threshold time set, it sends SMS to a maximum of four different mobile numbers predefined.

"Thus NCS ensures a positive and immediate response from the nurse for the patient needs".

Nurse Station Display (NS_LCD)

This is a Micro-controller based device placed in the Nurse Station with dynamic windows which displays the room number of the calling patient and also it has a voice module to announce the call with three user keys.

POWER Button: Pressing for approx. 3 sec turns the device ON or OFF.

MUTE Button: It will make the flashing window steady and also silences the voice module until a call is cleared.

Test Button: On pressing the button it will flash all the windows and will announce" Attention, Patient calling" to ascertain the device functionality.

GSM based Patient Interface Hub(GPIH)

Allows for 16 Bed side and 16 Toilet Calling Units. Uses 2 pairs of wires to get interconnected with NS_LCD. Can use PIX units (maximum of 4) to connect more than 16 calling units. GSM Modem port is terminated on a 9 pin D-Shell connector.

Patient Interface Extender (PIX)

Allows for 8 Bed side Calling Units and 8 Toilet Calling Units. Uses 4 pairs of wires to get interconnected with GPIH unit.

Specifications :

Parameter	NS_LCD (320x240 pixels)	GPIH	PIX
Dimension	255W X107H X 205D mm	328W X 140H X 60D mm	192W X 56H X 128D mm
Power	230 V AC +/-10%,50 Hz,15 watts	230 V AC +/-10%,50 Hz,15 watts	230 V AC +/-10%,50 Hz,10 watts
Weight	2 Kg	1.8 Kg	1.1 Kg
Material	ABS Enclosure	MS Enclosure	MS Enclosure

Nurse Call System ◇ OPD-Q Management System ◇ Token Management System ◇ GPS based Smart Announcement Clock ◇