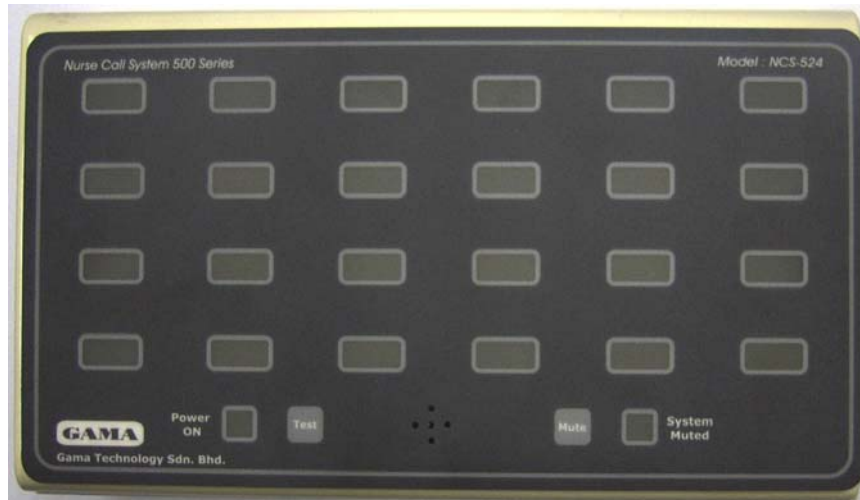


Main Station

NCS-524

Gama 500 Series Nurse Call System



GAMA 500 Series Nurse Call Systems is design with the latest technology to provide the end-user the most reliable system. This series of nurse call system is fully configurable to suit any medical institutes. And this series also have few additional add-on option's to expand the usage of this system. *(please refer to Add-On Modules for future information).*

Multiple Configurations'

The **GAMA 500 Series** Nurse Call Systems can be configured in two basic mode of operation, the "Single Mode" and "Zone Mode". The difference of these modes shall be explained later.

Power Source

The **GAMA 500 Series** Nurse Call Systems have a built in "Medical Approved Power Supply Card", this is a VERY important factor because a non-medical approved power source can cause harmful interference to other medical equipment's.

TEST Function

The user can press the "TEST" button to verify the system operation. Upon pressing this button all the bed (or zone) indication LED will light-up and the audio alarm will sound. The user can then verify the operation of the system.

MUTE Function

A "MUTE" button is provided to disable the audio alarm temporarily while the nurse attending the patient. This mute function will automatically disable if new alarm condition happened or it has been more than 5 min (*can be changed upon end-user request*) since the last mute pressed.

System Muted Indication

If the audio alarm is muted, this indicator will light-up. This indicator will automatically turn OFF after 5 min, if the alarm condition is still present. And this muting function will turn OFF if new alarm condition accorded while the system is muted.

Customized Legends

The legend for each indicator can be customized. This can be done at any time before or after delivery. With this option the user can rest assure the change in the logistic will not cost too much on the system.

Protections

The **GAMA 500 Series** Nurse Call Systems have the following built-in protection system to ensure the system work at optimum level.

1. COW BAR Circuit – This circuit will continually monitor the supply line for each bed unit if the consumption of the bed unit exceed the preset value, "SYSTEM ALARM" indicator will light-up.
- 2.
2. Cable Monitoring – This system will continually monitor the interconnection cable's and if any off this cable snapped, the system will indicate related bed or zone and the system alarm will turn ON. (*model depended*).
3. Power Monitoring – The system will monitor the main supply line, in the event of power failure, the "SYSTEM ALARM" light will ON, at the same time the "POWER ON" light will turn OFF. (*model depended*).

Single Mode

This is ONE of the commonly used mode, each bed has it's own indication. When a patient calls for nurse's assistance the related indicator will light-up. Audio alarm is provided to future alert the nurse.

Since each patient has it's own indication the duty nurse can identify the patient and prepare his/her self before attending the patient.

Zone Mode

This mode is very useful if the medical institutes have very large number of bed's. With this configuration, we can divide the large area into zone and assign to ONE indicator.

Once a zone is triggered the nurse moves to the related zone and searches for the bed head which indicating alarm (by looking at the on-board LED) and attend the related patient.

Add-On Modules

The following are the add-on modules, which the user can purchase separately to increase the scope of this system.

1. Printer Module - The system will print the date & time a patient called for assistance and the time the nurse attended the patient. This future will be very use full to monitor the nurse efficiency and patient feedback's.
2. Dialer Module - With this module the system will automatically dial to a preset number (max. 5 number) after the alarm has been trigged for some time (which the user can set).
3. Transfer Module - With this module the system will transfer all the alarm condition to another "Remote Station". This is very useful if the management personal wanted to monitor the nurse activity and efficiency.
4. Battery Back-Up - This is a Battery Back System for the entire nurse call, this system have built-in change module.

Technical Specifications

Power Source

Operation Voltage	: 90 – 264 VAC, 47 Hz to 440 Hz
Approvals	: UL / CUL / TUV / CB / CE
Safety Standard	: UL 2601 , EN 60601 , IEC 601-1
EMC Standard	: EN 55011 , EN 61000-4-2, 3, 4, 5, 6, 8, 11 EN 61000-3-2, 3, EN 60601-1-2
Types Of Protection's	: i) Over Voltage ii) Voltage Surge iii) Under Voltage iv) Lightning Surge
Warranty Period	: TWO Years

Main Controller

Central Processor Type	: 8-Bit Microprocessor working at 8Mhz
Back-up System	: Non-Violate Memory (<i><u>NO BATTERY REQUIRED</u></i>)
Maximum BED Location	: 24 Bed's
Maximum ZONE Location	: 24 Zone
Legend Area	: 10mm x 20mm
P.C.B Board Type	: FR4 with ½ oz. copper

Dimension

Width	: 280 mm
Height	: 160 mm
Depth	: 60 mm
Weight	: 5.6 Kg