

Micro Nursecall Systems

General nurse call specifications for a basic system.

Due to the multitude of tasks performed by the nursing staff in hospitals, a nurse call system is required for the rapid and reliable transmission of a variety of calls e.g. nurse call, bathroom/toilet call to the duty station.

The system is designed for easy operation by the patient. The use of symbols rather than text overcomes language problems. The distinct difference between normal and bathroom calls enables nursing staff by visual and acoustic signals to clearly identify calls.

A mimic panel with a graphic representation of the ward floor, the over door light as well as a variety of audible signals will guide the nurse to the location where the call was initiated.

System Description

The system consists of the following units:

- 1) Patient pearpush unit – MH-PRD
- 2) Bedhead unit with call and reset – MB-CRC-C.
- 3) Bathroom impulse pullcord unit – MW-PLI-4X4.
- 4) Bathroom/toilet call unit – MW-PKI-C.
- 5) Bathroom reset unit – MW-RES-C.
- 6) Over door light – MI-ODL-C.
- 7) Mimic panel – MM-MIMIC.
- 8) Power supply.

1) Patient pearpush unit – MH-PRD

The patient pearpush unit is a modern and robust unit with a moulded RCA jack on a 1.8m cord. The reassurance led activate on the bed unit when a call is registered.

2) Bedhead unit with call and reset – MB-CRC-C.

The bed head unit can be clipped into the bedhead ducting close to the patient or onto a 100 x 100 or 100 x 50 mounting plate. The unit provides an in-line moulded RCA socket for connecting to the patient pearpush unit and is connected to the rest of the system via a plug-in connector for ease of replacement without disconnecting wires.

Activation of the nurse call switch on the pear push unit or bed unit will activate the following:

- the reassurance LED on the bed unit,
- the ward over door lamp,
- the bed indicator LED on the mimic panel,
- the chime every ten seconds.

The call is cancelled by pressing the reset switch on the bed unit.

3) Bathroom impulse pullcord unit – MW-PLI-4X4.

The pullcord unit is normally fitted inside a shower and contains an impulse switch and a reassurance LED. Operation of the pull switch will activate the reset unit and the LED will reassure the patient that a call has registered.

4) Bathroom/toilet call unit – MW-PKI-C

This unit is normally fitted on the side of the bath or close to the toilet. The call unit contains an impulse switch and a reassurance LED. Operation of the call switch will activate the reset unit and the LED will reassure the patient that a call has registered.

5) Bathroom reset unit – MW-RES-C

The reset unit is fitted outside the bathroom door. The unit is activated by the call unit inside the bathroom. When activated, the LED on the call unit, the LED on the reset unit, the bathroom over door lamp outside the ward, the bathroom LED on the mimic panel and the chime will be activated. Operating the reset switch on the reset unit cancels the call. When two wards share a bathroom, the reset units adjacent to the bathroom doors in both wards will switch on. The call can be cancelled on either reset unit.

6) Over door light – MI-ODL

This LED type over door lamp is mounted in the passage above the door of a room. Four hi-bright red led's are mounted on a printed circuit board with a 2-way header for easy cable termination behind a dome shaped lens. This unit can be clipped into an 100 x100 or 100 x 50 mounting adaptor

7) Mimic panel – MM-MIMIC

The mimic panel is housed in a wooden box to blend in with the duty station desk finish and is suitable for desk or wall mounting. The mimic wiring is connected to the led printed circuit mounted behind the face plate. The chime/emergency printed circuit board is installed in the junction box and the loudspeaker and emergency buzzer on the face plate.

A graphic representation of the ward floor is anodised onto an aluminium plate. The led's are fitted into flash mount led holders and soldered onto a purpose made pcb with screw type cable terminations for easy installation and maintenance. The night switch, cardiac arrest switch and lamp test switch are mounted on the face plate.

8) Power supply

A 24 volt DC regulated power supply with an output rating of 4 Amp is installed in the distribution box for each ward. The power supply has surge protection as well as input and output fuse protection. A red led indicate power on.