

'Hi-CARE' WIRELESS NURSE-CALL SYSTEM 'Radiant -100'

INTRODUCTION

The Hi-Care 'Radiant-100' system in its simplest form comprises a highly sensitive wireless receiver/controller which will accept signals from up to 100 radio transmitters and will convert those transmissions to either of the following:-

- Standard alphanumeric radio paging messages via a connected paging transmitter comprising a computer-less emergency-call system, or
- Direct connection to a standard IBM compatible computer for comprehensive processing, message distribution and call logging.

In its various alternative configurations 'Radiant-100' is able to accommodate several hundred wireless and hard-wired inputs thereby making it a truly flexible and cost effective system.

CENTRAL EQUIPMENT

As a stand-alone system for use within a medical center, day surgery or small aged care facility the system central equipment simply comprises one or more 100-channel Wireless Input Controllers (WIC-100), perhaps some 16-way hard-wired controllers and a paging transmitter along with a system power supply with battery backup.

Each of the wireless (and hard-wired) memory locations is capable of being programmed with alphanumeric message of up to 20 characters for each incoming call. It will also evaluate the incoming transmission and may, for example, tag a display message as a "duress priority" or perhaps with a "low-battery" report if applicable.



Wireless Input Controller WIC-100 (above)

The retransmission of the appropriate canned message can be directed to individual or groups of radio pagers and/or Annunciator displays.



Paging Transmitter

WIRELESS TRANSMITTING DEVICES

A wide range of wireless transmitters may be included within a typical 'Radiant-100' system design. These may include bedside call-points with 'call', 'cancel', 'staff assist' and cord-pendant capability in addition to highly featured waterproof versions.



Over-Bed Cord Pendant

CPR-304-PC; Standard bedside Wireless Call-Point with Call, Cancel, Assist and cord pendant connection. (above)



CPR-3040AP-WP; A general Purpose waterproof wireless Call-Point with Call, Cancel and Assist functions. (right)



Range of typical portable wireless devices such as a pendant and a wrist-strap transmitter plus a wireless smoke detector



Other wireless devices may include portable bed-exit and bed-wet sensors, wandering resident and wet-diaper location and reporting facilities in addition to wireless passive infrared sensors and staff duress transmitting devices.

DISPLAY DEVICES

A computer-less Radiant-100 system is able to dispatch alphanumeric calls to a combination of both wireless pager and annunciator displays.

When connecting a Radiant-100 to a host computer the range of display devices may then also include DECT portable phones, wide area pagers and the computer's archive log and associated hard copy printer.



Wireless Annunciator Display (above)



Wireless Pager (right)

COMPUTER OPTION

The Radiant-100 system, in addition to being a low-cost, flexible wireless nurse-call or similar emergency-call system, is equally suited for connection to a host computer.

It may, for example, be used to enhance an existing aged care nurse-call system by introducing wireless duress, dementia and incontinence monitoring and management opportunities.

DEMENTIA & INCONTINENCE FACILITIES

Radiant-100 presents the opportunity to provide an umbrella of wireless reception thereby allowing the introduction of extra services and facilities not otherwise possible without investing in expensive site cabling.

In addition to standard nurse-call, duress and the monitoring of plant and equipment, it is also possible to provide a comprehensive 'Hi-Care' facility using the standard range of Smart-Caller dementia and continence sensors connected to wireless transmitters.

Radiant-100 is therefore able to provide a 'Hi-Care' capability within a previously low-care establishment.

The 'Hi-Care' wireless facility is achieved by connecting a Smart-Caller 'Demport' unit within a resident's room. It needs no more than a 12v dc power source plus the connection of the required bed sensors.

With its 5-channel wireless transmitter the 'Demport' is able to provide bed-exit, bed-wet plus nurse-call and staff duress without the necessity for room cabling. However, with some room cabling it is possible to extend those facilities to include all or any of the following:-

Bed-wet	Bed exit/return
Ensuite Entry/Exit	Door exit
Ensuite/bed-head lights	Nurse call
Nurse-Assist	Duress call



'Demport 5-channel Wireless Controller

'Hi-CARE' BED SENSORS

The bed-exit sensor is the most significant device within a 'Hi-Care' room monitoring facility. It simply connects to the 'Demport' unit via a dual-sensor connecting lead.

A feature of the bed-exit sensor is its ability to be placed under the mattress thereby avoiding discomfort to the resident and therefore ensuring hygienic and comfortable sleeping conditions.

The bed-wet 'Clip-On' sensor is another important facility whereby it simply uses a strip of Wetex* or similar material to detect moisture under the 'Kylie' or similar mattress protection sheet.



CLIP-ON:- Bed-Wet Sensor



Under-Mattress Bed-Exit Sensor

Authorized Supplier

Specifications subject to change without notice