



'RADIANT-500' Wireless Call System



WIC-100/200 Wireless Input Controller including Paging & Annunciator driver outputs

INTRODUCTION

'Radiant-500' is an Australian designed and manufactured premium quality wireless nurse-call system from a specialist company with 30 years experience. Being one in the range of hard-wired, wireless, telephone and IP based nurse-call systems it satisfies tight budgets without compromising performance, quality or functionality.

In its basic form it will accommodate up to 100 wireless call-points however, an additional 'plug-and-play' circuit will double this capacity. Beyond 200 inputs the 'Radiant-1000' model becomes the logical solution.

This modern nurse-call system offers a total solution to monitoring and managing residential care from outreach to the highest levels of dementia specific requirements.

Unlike the alternative 'Radiant-1000' wireless system which uses a Windows* based operating system, the 'Radiant-500' version employs an Industrial quality microprocessor embedded system that uses the latest 'flash-memory' technology. Accordingly it includes no moving parts that will deteriorate and ultimately fail. Consequently the system 'head-end' has a 50,000 hour MTBF rating (Mean Time between Failure).

'Radiant-500' is also user friendly and configurable to allow future adjustments, inclusion of accessories and additional call-points. It also provides call traffic logging and printing plus reporting of elapsed response times. It will repeat paged calls and will escalate calls to other persons should elapsed times exceed allowable limits.

A Paging transmitter, Annunciators and (certain) DECT systems are logical 'Head-End' accessories. Options also include 32 hard-wired inputs and high level interface connections to fire panel, security systems and other nurse-call systems.

FEATURES & BENEFITS

- Suits up to 200 wireless call-points (expandable)
- 32 hard-wire input option
- Range of wireless devices plus wrist-strap & pendants
- Transportable bed wet, bed exit & high-care sensors
- Solid state embedded microprocessor controller
- Real time call logging, repeat call and escalation
- Interface to Fire Panel, Access Control system etc
- Interconnect to other and old nurse-call systems
- Accommodates Pagers, Annunciators & DECT phones
- Monitoring & reporting of wireless device low-battery
- Suits Aged Care, Duress and OH&S applications
- Low cost :high quality Australian design and manufacture

SELECTION OF CALL-POINTS & SENSORS

All wireless call-points used throughout 'Radiant' nurse-call systems have the ability to dispatch 'Resident', 'Staff Assist' and 'Cancel Calls' to the system head end.

Staff Assist is achieved by the staff member pressing both Call and Cancel buttons simultaneously.

Each incoming call is also interrogated for battery threshold level and the WIC Controller will tag incoming calls having a 'low-battery' condition if applicable.



Bedside, communal & wet area wireless call-points



In addition to the fixed location call-points there is no practical limit to other transmitter equipped devices that may be deployed some of which are shown below.

The selection below includes Pendants, wrist transmitters, floor mats, bed exit and chair exit sensors, bed-wet sensors and other devices including smoke, PIR motion detectors; door reed switches and so on. Flexibility and portability are keywords for the deployment of wireless technology within Aged Care, Duress and OH&S applications.



Selection of typical wireless devices

Other items (not shown) include door bell, refrigerator and passenger Lift alerts, flood sensors, gas detectors and water flow sensors to name a few.

THE MICROPROCESSOR CONTROLLER

The miniature and robust SmartCom-M2M flash memory microprocessor Controller receives incoming call traffic from the WIC Master Wireless Receiver. It then delivers the call back to the WIC unit in the form of an outgoing message for delivery to the Paging Transmitter and/or Annunciators.



This system controller will maintain real time & date and will record elapsed times taken for staff to respond to

alarm calls. Daylight saving is automatically adjusted.

SmartCom-M2M is supplied complete with flat screen monitor, mouse and keyboard to allow system editing, viewing and printing.

RESOLVING WIRELESS RANGE PROBLEMS

Ensuring reliable range coverage has previously been a problem with most wireless systems. This is not so with Smart-Caller 'Radiant' systems. It is possible to double the basic incoming wireless call range to both Controllers and Wireless Repeaters by adding a single low cost RX-EXT Extension Receiver. Up to 5 range extenders may be deployed.

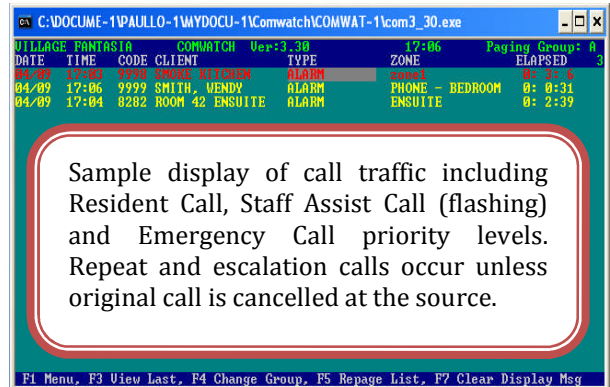


For difficult locations or separate buildings the use of one or more Smart-Caller WRX-01 Wireless Repeaters will overcome those out-of range issues particularly if also deploying Extension Receivers. Supervised Duralink Transponders also offer long distance solutions.

NURSE-CALL OPERATING SOFTWARE.

This highly reliable M2M Comwatch software program is easy to operate and has comprehensive logging and reporting facilities.

It allows a specific and comprehensive database entry for each call-point or portable wireless device thereby allowing the operating requirements for that device to be specifically set, logged and adjusted to suit initial and future requirements.



Sample display of call traffic including Resident Call, Staff Assist Call (flashing) and Emergency Call priority levels. Repeat and escalation calls occur unless original call is cancelled at the source.

CONTACTING CARER & NURSING STAFF

The need to deliver alarm call traffic to appropriate destinations is well catered for by the 'Radiant-500' system. The use of pagers offers the most economical solution, however the system also supports Annunciator displays and SMS text messages to various portable DECT phone systems.



Specifications subject to change without notice

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