

DMS Distributed Management System

The system is an integrated management system for nursing homes and provides facilities for all levels of nursing care, warden patrol and full nursing care. The system comprises of several types of units and functions all connected together with reporting and control from a central PC.

The system provides a call system, intercom, power management, lighting management and an intruder alarm in one system.

Units

- RCU
This manages the connections from the flat and other units onto the main network, it provides I/O connections for various items and to all of the local units within the flat.
- Consoles
These are wall mounted units which provide user access to the system. Also they are used to provide active call display.
- Dimmers
These provide manual and remote setting of the light dimming level, either from control mounted within the room or via central PC.
- Power Switches
These provide remote switching of mains sockets
- Care Station
A central PC to control and report on system functions
- Paging System
A central paging base station providing call information to mobile pagers

Call System

Wall mounted console units provide call and reset buttons where calls can be made or reset. A call jack on the front panel also provides an connection for any call jack lead for bed or other use.

Calls can come from a console button press, a call jack lead or by using the RF pendant worn by the user.

Call display units

These are wall mounted units which report active call activity. Where more than one call is active the display alternately displays each.



Intercom

This is only for use with the call system, and it allows carers to dial up particular flats and to talk to the residents, its operation normally is similar to a telephone in that it needs to be answered by pressing a button in order to communicate. However should there be an active call from that flat then the unit will automatically answer the call. This would mean that if the resident fell and was on the floor they could make a call, via the pendant, and the carer could call that flat remotely and for it to automatically answer.

Paging system

As a call is made this is reported, and sent out by the paging base station to the pagers. Currently there can be up to 10 pagers and these can be assigned to groups of flats. This allows only calls to be made to specific pagers and carers, typically for day use or when the call activity and staffing required is high. Also can be switched for night use where only one pager maybe desirable for one member of staff to received all calls.

Paging range 0.5 mile



Kitchen management

The system provides isolation of cooker and kitchen socket power either from central PC or via the keypad on the wall mounted console. This is to provide additional safety with demented residents.

Lighting management

The dimmers can either be controlled manually by the a room mounted control knob or remotely. Its typical uses for remote control would be to encourage demented patients to go to bed at preset times.

Power management

This allows mains circuits to be switched remotely.

Intruder system

The system when active uses PIRs to detect movement and unwanted people within the flat. This is reported back to the care station PC. System activation and release is via password entry on the respective Console for that flat.

Additions

- *Bed wetting alarms*
- *Door opening*
- *Resident tagging*
- *Carer Tagging*
- *Smart actions – automatic lighting*