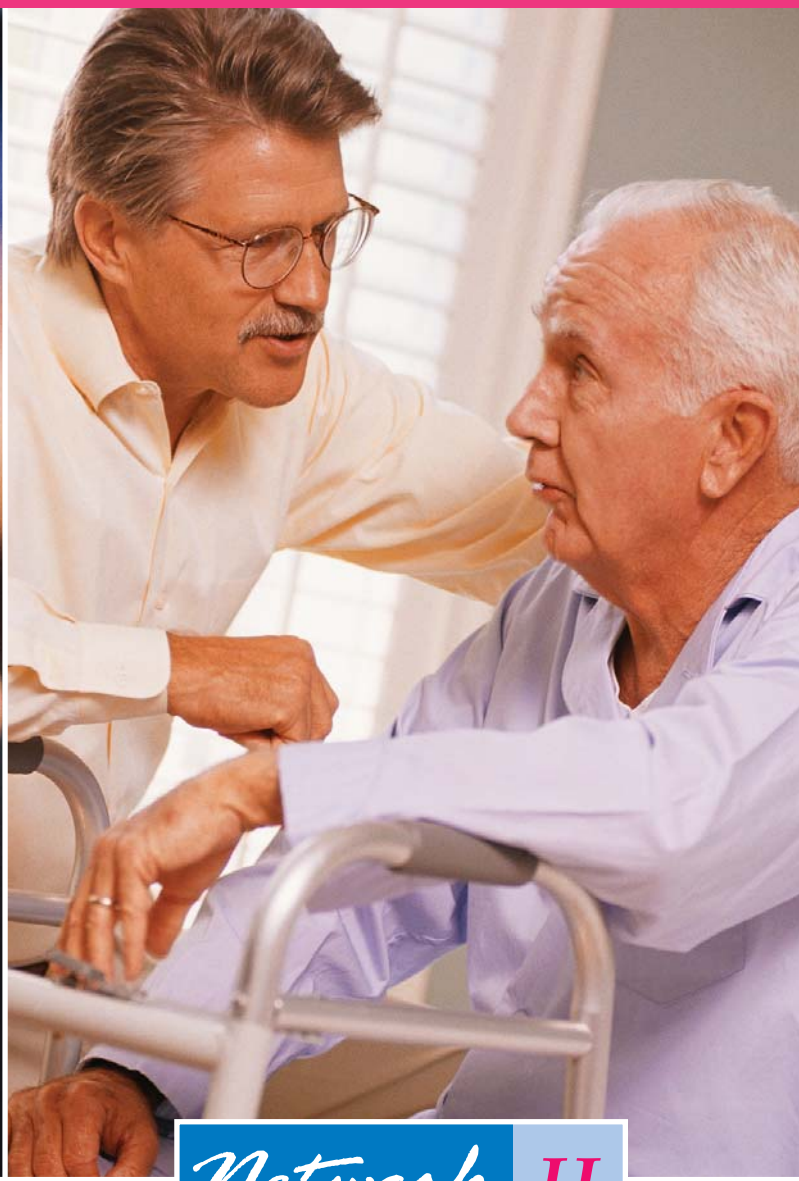
SAS

SPECIALIST ALARM SERVICES

caring technology

MANUFACTURERS OF NURSE CALL & STAFF ATTACK SYSTEMS



RED ALERT

Network II

PRODUCT GUIDE

contents

ABOUT SAS 03

AFTER SALES 04

TRAINING 04

RED ALERT 05

FAQ'S 06

CONTROL EQUIPMENT

Hub and power supply 07
Battery back-up 07

PROGRAMMING UNITS

Infra-red programmer 07
Jack plug programmer 07

INDICATOR PANELS AND SOUNDERS

Indicator panel with large text display 08
Indicator panel 08
Flush mounting indicator panel with large text display 08
Flush mounting indicator panel 08
Extension sounder 08

INFRA-RED SENSORS AND CALL POINTS

Infra-red receiver 09
Infra-red slave receiver 09
Externally mounted infra-red sensor 09
Infra-red receiver with stainless steel face plate 09
Infra-red slave receiver with stainless steel face plate 09
Push button call point 10
Reset unit 10

ALARM AND RESET TRANSMITTERS

Infra-red alarm transmitter 11
Infra-red reset transmitter 11
Infra-red test transmitter 12
Infra-red call transmitter 12
Magnetic staff key 12
Infra-red transmitter tester 12
Replacement batteries 12

ADDITIONAL EQUIPMENT

Over door indicator light 13
Over door indicator light with stainless steel face plate 13
Day/night volume control switch 13
Indicator light with relay output 13
Stand-alone infra-red sensor 13

DOOR MONITORING EQUIPMENT

Door monitor 14
Door monitor with stainless steel face plate 14
Over door light with sounder 14
Flush fitting door contacts 14
Surface fitting door contacts 14

INTERFACE EQUIPMENT

Alphanumeric pager transmitter 15
Alphanumeric pocket pager 15
Tone pager transmitter 15
Tone pocket pager 15
Datastore software package 16
Data logging printer 16
Data sharing device 16

NETWORK II 17

FAQ'S 18

CONTROL EQUIPMENT

Hub and power supply 19
Battery back-up power supply 19

PROGRAMMING UNITS

Jack plug programmer 19

INDICATOR PANELS AND SOUNDERS

Indicator panel with large text display 20
Indicator panel 20
Extension sounder 20

CALL POINTS AND ANCILLARIES

Nurse call unit 21
Reset unit 21
Push-to-call lead 22
Push-to-call lead with linen clip 22
Slave call unit 22
Nurse call unit with infra-red receiver 22

RESET KEYS AND INFRA-RED TRANSMITTERS

Magnetic staff key 23
Patients infra-red call transmitter 23
Infra-red alarm transmitter 23

ADDITIONAL EQUIPMENT

Over door light 23
Ceiling mounted pull switch 23
Day/night volume control switch 24
Weather resistant nurse call unit 24
Nurse call unit with stainless steel face plate 24

DOOR MONITORING EQUIPMENT

Door monitor 25
Over door light with sounder 25
Flush fitting door contacts 25
Surface fitting door contacts 25

INTERFACE EQUIPMENT

Alphanumeric pager transmitter 26
Alphanumeric pocket pager 26
Tone pager transmitter 26
Tone pocket pager 26
Datastore software package 26
Data logging printer 26

SPECIALIST ALARM SERVICES

caring technology

27 years of innovation have resulted in an enviable worldwide reputation for economy and reliability.

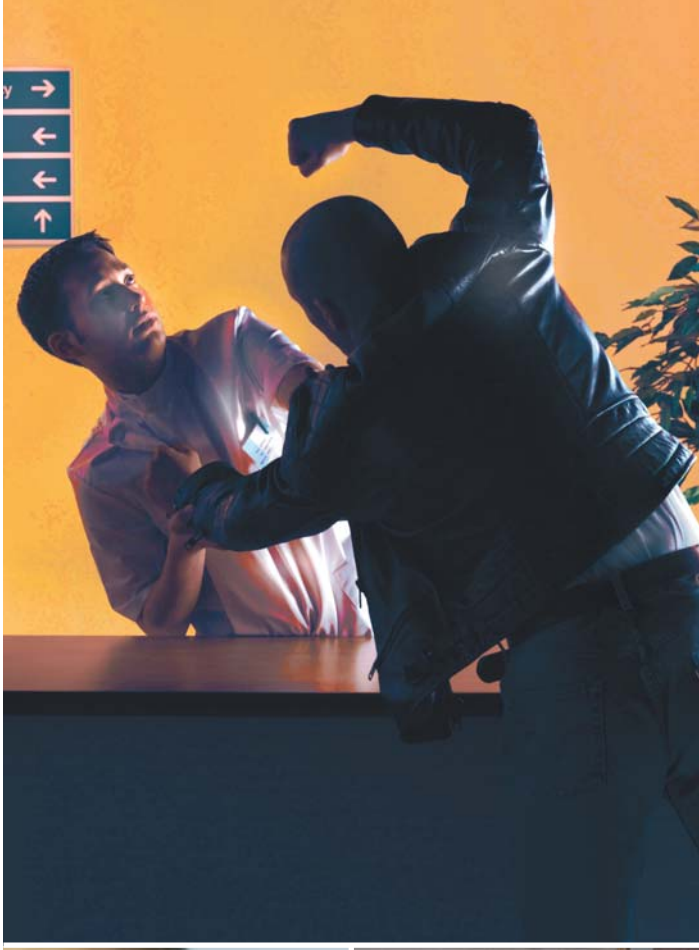
We have grown organically over the years and are now a multi-million pound organisation specialising in providing electronic solutions to security and convenience concerns in health care industries around the world.

Working from our custom built premises in the north of England we aim to capitalise on our reputation and that of our products and keep innovating to improve, expand and optimise our range of services.

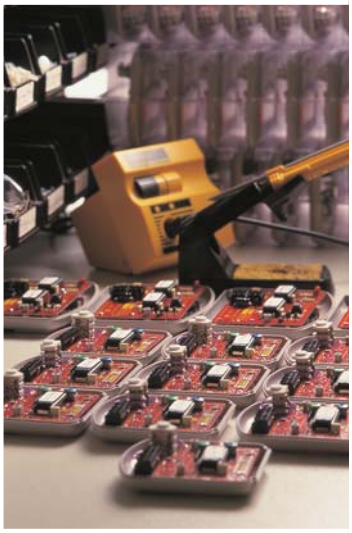
With our total commitment to the needs of our clients, the current range of equipment is the end result of much customer consultation.

Our systems are designed to be easy to install and simple to use but we still find that our training facilities, for installers and end users, are seen as an enhancement to the services we provide.

Although our comprehensive range of equipment covers the needs of clients across the globe, custom built systems are still available due to the legendary flexibility that is an integral feature of our production department.



> SAS have a flexible approach to meeting our particular requirements. They have always provided cost effective solutions with a reliability record second-to-none.
>
> Rob Balderson Special Services Manager - St Andrews Hospital



> We were particularly impressed with the high specification and reliability of the product.
>
> Central and North West London Mental Health NHS Trust

After Sales Support

All of our products are backed up with a comprehensive twelve month guarantee, after which some of our customers decide to carry out first-line maintenance using their own service personnel. This is certainly seen as important when our system is affected by a burst water pipe! SAS offer our continued support with tailor-made maintenance and inspection contracts. To guarantee that the equipment is maintained to the highest standards we offer two levels of contract. They are optional and, naturally, we don't insist on a contract being in place for us to attend to your service needs.

All of our installation and service team are highly trained ensuring your requirements are dealt with speedily and efficiently. We understand that the products we manufacture and install are crucial to your organisation and the service we offer is second-to-none.

Our northern office is home to our team of customer support personnel. As your first point of contact, their aim is to quickly ascertain your requirements and implement the required response.

Training for Customers and Engineers

We are sure you agree end-user training is very important when a new system is installed. Our aim is to ensure that staff are aware of all of the features and facilities available so the product is used to its full potential. This training is carried out at the completion of the installation and instruction manuals are made available to key personnel.

Some of our clients that have numerous systems installed find it useful to have their own on-site maintenance staff trained to service our products. We offer them the simple technical training they need at our northern office or if necessary, on-site. Our customer support team is available when extra help is required.

staff attack systems -

for staff who need help in a hurry

RED ALERT

FAQ's

Q. What is Red Alert?

A. Red Alert is a system that has been designed to give staff the flexibility to remotely activate an alarm using an infra-red transmitter. Commonly used by medical staff as a personal attack alarm system as well as a medical emergency alarm system.

Q. What happens when I need assistance?

A. Any member of staff carrying an alarm transmitter can simply press the alarm button. This will send out an infra-red signal that floods the room with its particular coded light. In more urgent cases it may be easier to pull the transmitter from the clothing clip and throw it to the floor. It is sturdy enough to withstand this and will carry on transmitting.

Q. What happens then?

A. When the receiver senses the coded signal it relays the information back to the control unit (Hub). The Hub, seeing that a call has been made, instantly identifies the exact location and then transmits that information back out to the system. It can send the information to indicator panels or, via radio signals, to pocket pagers carried by key personnel. The location of the call is displayed on the indicator panels and pagers.

Q. What text can be displayed?

A. Any text you want up to 20 characters! The exact location of the call is sent for example, 'consulting room', along with the level of urgency (there are 4 levels available). This text can be changed at any time by using the hand held programming unit.

Q. Is it a well proven system?

A. Yes! We have been designing, manufacturing, installing and servicing electronic systems for 22 years. The Red Alert Personal Attack system was added to our product range several years ago. It has been installed to great acclaim in hundreds of establishments throughout the UK and also internationally. It has a proven record of reliability that has been specified by many UK NHS Trusts and Health Boards.

Q. Are there any other facilities?

A. There are many other features and facilities that the system can offer. One major example is that the system can be integrated with our range of nurse call equipment. This provides a cost effective solution for a centralised personal attack system for the staff to use with a fully featured nurse call system for the care of the patients.

Q. What size systems can be installed?

A. The system is extremely flexible. One hub will support up to 254 addressable points and 26 displays with no extra power supplies or boosters. Larger systems are available by interlinking the hubs to provide whatever size scheme is required.

Q. How is the system installed?

A. The system is simple to install. Very briefly, the call points are wired from the control unit (Hub) in radials. Up to 20 points can be connected to these radials meaning that one wire may be all that is required to connect up one ward or corridor section. Even indicator panels and over door lights can be connected to the radials. The overall result is a fast and efficient installation with the least amount of disruption.

Q. Who uses the system?

A. The system is used by a wide range of clients where their staff may be at risk of attack or abuse in the work place. Current users include over 150 NHS trusts in the UK. The trusts diversify from mental health, A&E departments, acute hospitals to EMI and general hospitals. Other users include doctors' surgeries, schools, probation and bail hostels, local government particularly social services and housing departments. The system has been exported to Europe, the Middle East and Australasia.

Q. Why choose RED ALERT?

A. The system has an unsurpassed record of reliability and the flexibility to comply with the most stringent requirements. We have been manufacturers of alarm call systems and associated products for 22 years and our systems are both designed and manufactured in-house.

CONTROL EQUIPMENT

As the central point or 'Hub' of the system, this control unit is used for all systems, large or small.

Hub and power supply

RED201

The HUB is the central control of the Red Alert system and has the ultimate capacity of 254 addressable call points and 26 LCD indicator panels. The cabinet has a lockable hinged door and houses the main control PCB (HUB), the power supply unit and has space for battery back up, if required. It should be installed centrally in the system layout, normally in a secure location and requires a 240 mains supply from an un-switched fused spur. An input from a day night volume control switch is available to adjust the volume of the LCD indicator panels; alternatively this can be set to automatically change at a certain time of day. A voltage free set of contacts is provided to trigger external devices in the event of a call, an alarm call or an attack call. These contacts can be used to trigger tone pagers or additional voltage sounder or strobe lights etc.

Battery back-up

RED202

This is an option for buildings that may be particularly prone to mains failures. The standard rechargeable battery supplied has a 7Ah capacity. Larger back-up systems can be supplied and we can calculate the size of the battery from the required duration and the size of the system.

PROGRAMMING UNITS

Infra-red programmer

RED236

An essential tool during commissioning. It is used to programme the infra-red call points with their unique address number and the text description (room name) of the sensor. The information is entered into the programmer it is then pointed at the infra-red sensor, an infra-red link transfers the data. This makes changes of room names at a later date very easy.

Jack plug programmer

NET236

It is used during commissioning to programme the non-infra-red addressable points i.e. RED245, RED210 and RED218 etc. with their unique address number and the text descriptions. The information is entered into the programmer it is then plugged in to the point via the jack socket. This transfers the programming information to the call point.

INDICATOR PANELS AND SOUNDERS

Designed to audibly and visually inform you of an alarm call. Choose the type best suited to the environment they are to be installed. The indicator panels with the larger style text display prove to be the popular choice. Check out the radio paging system in the Interface Equipment section, ideal for staff who are always on the move.

Indicator panel with large text display

RED243

These indicator panels use the larger style 20 digit LCD modules, the two rows of text are displayed using illuminated 12mm high characters. Each indicator panel has an integral sounder and includes a mute switch to silence the call tone for a pre-determined period. The unit displays two calls simultaneously and, if more calls are made, the display can be scrolled to show each call in turn. Differing call tones let the staff know what level of alarm call has been initiated. A further button allows the installing engineer to adjust the settings of the display, these include day/night time volumes and mute delay. Another feature allows any of the control buttons to be isolated preventing misuse.

Indicator panel

RED203

A compact indicator panel with an LCD module having 5mm high characters and similar features to the RED243.

Flush mounting indicator panel with large text display

RED248

Designed with the same features as our RED243 indicator panel with a high visibility larger style text display. This is the popular choice when the indicator panels may be subject to misuse. It is housed behind a white powder coated steel face plate for impact protection and a 4mm Lexan window to protect the display. It comes complete with a galvanised flush mounting back box.

Flush mounting indicator panel

RED238

This indicator panel has the same functions and liquid crystal display module as the RED203. It is housed behind a white powder coated steel face plate for impact protection and the display is protected by 4mm Lexan. It comes complete with a flush mounting galvanised back box.

Extension sounder

RED212

This extension sounder is used to mimic the indicator panel call tones. They provide a cost effective way of providing an alarm sound is areas where indicator panels are not required. The tones generated are louder than those from the range of indicator panels.

INFRA-RED SENSORS AND CALL POINTS

These sensors are installed in the areas your staff may be at risk of attack. You also have the option of push button call points and reset points that allow you to connect in any type of alarm button you require.

Infra-red receiver

RED205

These infra-red receivers are usually fitted in areas where the staff may feel at risk or may need to call for assistance. They receive alarm signals from our range of infra-red transmitters and send the location of the alarm call to the indicator panels. A red light reassures that an alarm call has been received and is also used in conjunction with our new alarm transmitter for the user test function (see RED208/5).

Infra-red slave receiver

RED205C

This receiver is used to increase the coverage of an infra-red receiver. They are commonly used in corridors, large dining areas and en-suite w.c's. Up to three slaves can be connected to an infra-red receiver, which is sufficient to cover approximately 200 square metres. They are the same as the RED205 in appearance.

Externally mounted infra-red sensor

RED255

This is a RED205 sensor mounted in a weather resistant IP65 rated enclosure. It is designed for use when personal attack coverage is required in external areas, for example gardens and patios. It has a range of approximately 10 metres and the alarm transmitters must be aimed towards the sensor and for this reason it has a bright fluorescent orange label.

Infra-red receiver with stainless steel face plate

RED265

This receiver has the same features as a RED205 but it is manufactured with a stainless steel faceplate and a 4mm Lexan window to protect the infra-red sensor from abuse. It is recommended for areas where damage to standard sensors may occur. It is usually flush mounted but can be supplied with a surface-mounting box.

Infra-red slave receiver with stainless steel face plate

RED265C

This slave receiver has the same features as a RED205C but it is manufactured with a stainless steel faceplate and a 4mm Lexan window to protect the sensor from abuse. It is recommended for areas where damage to standard sensors may occur. It is usually flush mounted but can be supplied with a surface-mounting box.

Push button call point

RED245

A wall mounted call point with a large red actuator to activate an alarm call. These units are used in areas where staff or visitors may need to activate the alarm system but may not be carrying an infra-red transmitter. It is reset using a magnetic reset key (RED216).

Push button call point

RED245M

This alarm call point is similar to the RED245 above but is reset by the blue push button. A small red button is used to generate a higher priority attack call.

Reset unit

RED204

A device designed to receive an input from an external alarm source for example, an alarm strip mounted on the underside of a desk or a hospital crash call system. Once activated it is reset using a magnetic key (RED216) meaning only authorised staff can cancel calls.

Reset unit

RED204M

As the RED204 but with a blue reset button. Ideal when quick response to cancelling calls is required for example, when a door bell push button is connected.

ALARM AND RESET TRANSMITTERS

Carried by staff who may be at risk of attack. Our new transmitters are sure to be popular with their enhanced range of features. Don't forget the reset transmitter, needed to cancel any alarm calls.

Rechargeable infra-red transmitters

RED208/6 & RED209/6

The RED208/6 alarm transmitter is carried by staff in establishments where they may feel at risk of an attack or might need to call for urgent assistance. This is our latest design of infra-red transmitter and it is powered a rechargeable battery. A full charge will last for months rather than weeks and a quick 2 hours is all it takes to get it back to a fully charged state. The transmitter incorporates a red alarm button and a unique emergency call pull activation that keeps the transmitter attached to your person. A pair of side buttons is provided to give a double action switch. A green button is pressed to check the battery condition, indicated by an LED, furthermore the nearest infra-red receivers' reassurance light will flash to confirm a healthy signal. This is a confidence inspiring feature for the user who can quickly test the transmitter and receivers' function when dealing with a potentially serious situation. As further backup a bleep will be heard from the transmitter when a battery requires a quick charge.

The RED209/6 reset transmitter has the same features as the alarm transmitter but has a blue button that is used to cancel alarm calls at their origin. This important feature means that calls have to be dealt with by visiting the area of activation.

ID badge transmitter

RED208/7

Designed specifically for staff that carry ID badges at work. This transmitter is designed to hold standard credit card size ID badges and can be worn with a necklace or clothing clip. It has the same rechargeable battery and test features as the infra-red transmitter described above. The back of the holder incorporates the test button, two alarm buttons and a set of double action emergency 'squeeze' switches.

Infra-red transmitters

RED208/5 & RED209/5

The RED208/5 is our battery operated alarm transmitter that is carried by staff in establishments where they may feel at risk of an attack or might need to call for urgent assistance. It has similar features to our rechargeable transmitter detailed above. It incorporates a red alarm button to unobtrusively activate the nearest Red Alert receiver. Pulling it away from its clothing clip activates a higher priority call. A test button and array of LED's indicate the battery strength and a test signal is sent to the nearest infra-red receiver to provide reassurance that the transmitter is functioning correctly.

The RED209/5 reset transmitter incorporates all of the aforementioned features but has a blue button in place of the red alarm button. This transmitter is used to reset calls at their origin.

Infra-red transmitters

RED208/1, RED209/2 & RED208/T

The original transmitters from SAS. The RED208/1 alarm transmitter is battery operated and incorporates a red alarm button and a clothing clip with pull activation for emergency calls. It can be tested using our RED250/1 test station.

The RED209/2 is a reset transmitter. It has a blue reset signal button and a clothing clip with pull activation for emergence calls.

The RED208/T is a test transmitter. It has a white button and is used by staff to periodically test the infra-red receivers. Activating the transmitter in the vicinity of a receiver causes its LED to flash, proving that it is working correctly.

Infra-red call transmitter

NET208

A transmitter designed to be easy to operate. A large orange button activates an infra-red sensor with the lowest priority call level. It is ideal for use by residents or patients who are vulnerable and need the use of a call system. It can be supplied as a necklace pendant or as a hand held unit.

Magnetic staff key

RED216

Carried by staff to enable them to reset alarm calls on call points with a magnetic reset facility (e.g. RED245 & RED204).

Infra-red transmitter tester

RED250/1

This desk mounted test unit is used to check that the RED208/1 and RED209/2 transmitters are sending the correct signals and that battery levels are healthy. It is not needed to test the RED208/5/6 and 7 transmitters as these include built-in test features. The transmitter is inserted into the test station so as not to activate any nearby infra-red receivers. Ideally positioned at the reception desk so staff can test their transmitters at regular intervals. It is supplied with a plug top power supply unit.

Replacement batteries

GP23AE

Handy to have in stock, these fit all of the battery operated transmitters in our range.

ADDITIONAL EQUIPMENT

Over door indicator light

RED210

A useful option, these lights can be fitted outside each room to indicate that an alarm call has been made from inside. Staff often find them useful in the rapid location of calls. The light pulses red to signal which priority of call has been initiated. It can be used as a group light to indicate calls from up to eight alarm points.

Over door indicator light with stainless steel face plate

RED260

This is a version of the RED210 over door light manufactured on a stainless steel plate. It is commonly used in conjunction with our range of stainless steel infra-red sensors where the equipment may be subject to abuse.

Day/night volume control switch

RED211

Used to switch the indicator panel sounders from their daytime to night time volume settings.

Indicator light with relay output

RED210R

Similar to the over door indicator light, it can be activated by up to eight alarm points. The voltage free contacts provided can be used to activate other systems for example, to lock or unlock emergency exit doors, set off a strobe light or active a nearby CCTV camera.

Stand-alone infra-red sensor

RED200

It is similar in appearance to the RED205 sensor and has been designed to operate as a stand-alone sensor. This means that with a supply voltage (between 12 and 24 volt d.c.) to power it, any activation by a transmitter from our range will activate an on-board relay. These sensors are used to integrate with other call systems, providing them with the flexibility of infra-red technology.

DOOR MONITORING EQUIPMENT

Used to alarm fire exit doors, store rooms and controlled drugs cabinets. This equipment gives you a cost effective monitoring system fully integrated with the Red Alert system.

Door monitor

RED218

Located adjacent to doors or drug cabinets, these units generate an alarm call if the door is breached. A key switch is provided to isolate the door monitor when a door needs to be opened, the same key is used to reset following an activation. A red reassurance light shows its status. A timed override feature is provided to allow staff to exit a door without it activating. This can be done by a simple magnetic key swipe (see RED216 staff key) or if a higher level of security is required by a coded access keypad.

Door monitor with stainless steel face plate

RED275

This is a stainless steel version of the RED218. It is designed to offer a higher degree of durability when equipment may be subject to abuse.

Over door light with sounder

RED219

Used in conjunction with the door monitor, this indicator light can be fitted above a controlled door to indicate when an alarm call has been made. These over door lights are fitted with a sounder to attract attention audibly as well as visually.

Flush fitting door contacts

RED220

A magnetic door contact for fitting to timber doors. The switch and magnet are fitted flush for higher security.

Surface fitting door contacts

RED223

This magnetic door contact is usually used on metal doors or cabinets where flush fitting contacts are not suitable.

INTERFACE EQUIPMENT

A range of equipment designed to enhance the Red Alert system.

Seen by many clients as essential, the alphanumeric radio paging system allows mobile staff to receive alarm calls from anywhere within the building.

Alphanumeric pager transmitter

RED228

An alphanumeric paging transmitter used in conjunction with the RED229 pocket pagers. The pager is used to send text messages to the response staff showing them the precise location where assistance is required. It can be configured in many different ways for example, allowing only the highest priority alarm calls to be paged or to link several Red Alert systems via a common paging system. It can also be configured to work as an on-site paging system with connections to a PC or telephone system. It is supplied with RS232 interface unit, connection lead and aerial.

Alphanumeric pocket pager

RED229

Carried by response staff, these units can be programmed to bleep and vibrate, alerting staff that an alarm call has been received. The pager's display shows the exact origin and the type of alarm call received. They are supplied with a belt clip holster and a bungee cord to reduce the chance of accidental damage.

Tone pager transmitter

RED226

Ideal paging system when a tone pager is required to alert staff that an alarm call has been made. Linked to the RED 201 (HUB) and triggered by the on-board relay card, the transmitter sends a signal to the RED227 pagers. It comes complete with aerial.

Tone pocket pager

RED227

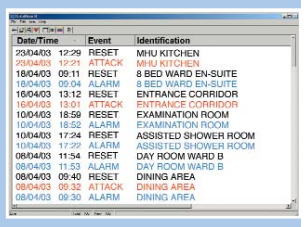
Carried by staff, these units bleep to alert staff that an alarm call has been made. Staff then consult a nearby indicator panel letting them know the exact origin of the call. They are supplied with a belt clip holster and a bungee cord to reduce the chance of accidental damage.

Datastore software package

RED234

The software package enables all events on the Red Alert system to be logged on a PC. The date, time, location and type of alarm call will be recorded along with reset and fault reports. A dedicated PC and printer is not required and the programme can be minimised and run in the background.

- It is possible to print selected data using the PC's own printer.
- The information displayed can be filtered to only shown the data you are currently interested in i.e. all logged information for CONSULTING ROOM 2.
- An alert popup window or sound can be set to inform you of a new event.
- The colours of the text, background and font can be altered to suit your requirements.
- Personal details can be entered for each identification in the log i.e. response procedures, access requirements etc.



Date/Time	Event	Identification
23/04/03 12:29	RESET	MHU KITCHEN
23/04/03 12:21	ATTACK	MHU KITCHEN
18/04/03 09:11	RESET	8 BED WARD EN-SUITE
18/04/03 09:04	ALARM	8 BED WARD EN-SUITE
16/04/03 13:12	RESET	ENTRANCE CORRIDOR
16/04/03 13:01	ATTACK	ENTRANCE CORRIDOR
10/04/03 18:59	RESET	EXAMINATION ROOM
10/04/03 18:52	ALARM	EXAMINATION ROOM
10/04/03 17:24	RESET	ASSISTED SHOWER ROOM
10/04/03 17:20	ALARM	ASSISTED SHOWER ROOM
08/04/03 11:54	RESET	DAY ROOM WARD B
08/04/03 11:53	ALARM	DAY ROOM WARD B
08/04/03 09:40	RESET	DINING AREA
08/04/03 09:32	ATTACK	DINING AREA
08/04/03 09:30	ALARM	DINING AREA

Data logging printer

RED235

The printer enables senior staff to monitor each and every call, alarm and reset. The date and time of each event is recorded for future review. The printer has an on board battery in case of mains failure. The printer package also includes a plug top power supply, RS232 port, spare rolls of paper and a spare printer ribbon.

Data sharing device

RED298

Used to interface a number of Red Alert systems to utilise a common paging system or common Datastore facility on a PC. Contact our sales team for advice and specification on this product.

Network II

nurse call systems -

for hospitals and nursing homes

Network II

FAQ's

Q. What is Network II?

A. It is an addressable nurse call system designed to work, as the name implies, on a simple electronic network. Designed with features and facilities requested by our clients over the years to provide a cost efficient and easy to install system.

Q. Who uses the system?

A. The system is used by NHS trusts, residential care homes and nursing homes throughout the United Kingdom. The system has been exported to Europe, the Middle East and Australasia.

Q. How does it work?

A. Patients and staff initiate calls from our range of nurse call points. Four call levels are available, patient-to-nurse, nurse-to-nurse, crash alarm and staff attack. The room's identity is then displayed on the indicator panels at the nurse base stations, they can also be sent to radio pagers for staff who are on the move. Staff can register their presence in a room allowing other staff members to locate them. Another feature enables staff to log their attendance, or visit, to a room when carrying out regular checks.

Q. What information can be displayed?

A. Any text you want up to 20 characters. Each nurse call point is programmed with the rooms name for example, 'Ward B bedroom 2' or 'Dining Area' so staff don't have to remember numeric codes. This information is programmed into the system during the installation and commissioning stage and can be easily changed at any time by using a programming unit. This gives the flexibility to keep the nurse call system up-to-date when rooms have a change of use.

Q. Is it a well proven system?

A. Yes! We have been designing, manufacturing, installing and servicing nurse call systems for over 22 years. The Network II system has been installed to great acclaim in many establishments throughout the UK and it has proved to be a very reliable and stable system requiring little or no maintenance.

Q. Is it suitable for connecting to existing wiring?

A. Yes! This was the main reason we designed the Network II nurse call system. The market for replacing old inferior systems is rising rapidly with the advent of tougher care standards. It has also proved to be a cost effective solution when hospital wards have been refurbished and the old nurse call systems have been replaced. With our system having such minimal wiring requirements, it also has advantages in other parts of the market. Indeed, the majority of our installations have been into new developments.

Q. How is it wired?

A. The system is centred around the control unit, or the appropriately named Hub. When replacing a system, two wires are connected from each nurse call point back to the new Hub position, either individually or in a 'daisy-chain' sequence. When wiring for a new system, the call points are wired on radials. Up to 20 units can be connected to these radials meaning that one wire may be all that is required to connect up the equipment in a ward or corridor section. Even the indicator panels can be connected to the radials. The overall result is a fast and efficient installation with the least amount of disruption. Ancillary equipment for example, ceiling mounted pull switches, are wired back to their respective call points. Full installation and programming manuals are available to guide you through the process.

Q. What size systems can be installed?

A. The system is extremely flexible and one Hub will support up to 254 addressable call points and 26 indicator panels with no extra power supplies or boosters being required. If the system requirement is for a larger, ward-based system, hubs can be interlinked to provide whatever size scheme is required.

Q. Does the system have data storage?

A. You have two choices. The preferred option is the software package, allowing you to save all information onto a PC. You can view selected room information, dates, times, types of call and more. All can be printed out using the PC's own printer or saved onto disk for future use. There is no need for a dedicated PC, the programme can be minimised whilst the usual day-to-day tasks are carried out. The second option is a dedicated printer that is connected to the system and keeps a continuous print roll log of events.

Q. Why choose NETWORK II?

A. The system has been designed for ease of installation and reliability. These two factors combined have made it an ideal choice for all types of projects from new builds to refurbishments to simply updating an old nurse call system. The range of facilities allied to its cost have made NETWORK II a market leader.

CONTROL EQUIPMENT

As the central point or 'Hub' of the system, this control unit is used for all systems, large or small.

Hub and power supply

NET201

The HUB is the central control of the Network II system and has the ultimate capacity of 254 addressable call points and 26 LCD indicator panels. The cabinet has a lockable hinged door and houses the main control PCB (HUB), the power supply unit and has space for battery back up, if required. It should be installed centrally in the system layout, normally in a secure location and requires a 240 mains supply from an un-switched fused spur. An input from a day night volume control switch is available to adjust the volume of the LCD indicator panels, alternatively this can be set to automatically change at a certain time of day. A voltage free set of contacts is provided to trigger external devices in the event of a call, an alarm call or a crash call. These contacts can be used to trigger tone pagers or additional voltage sounder or strobe lights etc.

Battery back-up power supply

NET202

This is an option for buildings that may be particularly prone to mains failures. The standard rechargeable battery supplied has a 7Ah capacity. Larger back-up systems can be supplied and we can calculate the size of the battery from the required duration and the size of the system.

PROGRAMMING UNIT

Jack plug programmer

NET 236

An essential tool during commissioning. It is used to programme the nurse call points with their unique address number and the text description. The information is entered into the programmer, it is then plugged in to the point via the jack socket. This transfers the programming information making changes at a later date very easy.

INDICATOR PANELS AND SOUNDERS

Indicator panel with large text display

NET243

These indicator panels use the larger style 20 digit LCD modules, the two rows of text are displayed using illuminated 12mm high characters. Each indicator panel has an integral sounder and includes a mute switch to silence the call tone for a pre-determined period. The unit displays two calls simultaneously and if more calls are made, the display can be scrolled to show each call in turn. Differing call tones let the staff know what level of alarm call has been initiated. A further button allows the installing engineer to adjust the settings of the display, these include day/night time volumes and mute delay. Another feature allows any of the control buttons to be isolated preventing misuse.

Indicator panel

NET203

A compact indicator panel with a LCD module having 5mm high characters and similar features to the RED243.

Extension sounder

NET212

This extension sounder is used to mimic the indicator panel call tones. They provide a cost effective way of providing an alarm sound in areas where indicator panels are not required. The tones generated are louder than those from the range of indicator panels.

CALL POINTS AND ANCILLARIES

A range of call points for the patients and staff. Our call point with infra-red sensor is proving to be the popular option for lounge and sitting areas and is used with a patients infra-red call button.

Nurse call unit

NET205M

Usually located at each bed-head, they feature a large orange button, which is used by patients when in need of assistance. Staff attending a call can raise a more urgent staff-to-staff call to summon help if necessary and a third call level, crash call, can be used for medical emergencies. They have a socket for a push-to-call extension lead (NET206) that is monitored in case the lead is pulled out from its socket inadvertently. The staff operations are carried out using push buttons on this version. The blue reset button can also be used to log a visit to a room and also register the nurses presence within the room. A reassurance light is illuminated red to reassure a call has been made and green to inform the patient that staff are on their way.

Nurse call unit

NET205

Having the same features and functions as the NET205M above, with the staff operations on this call unit controlled by a magnetic key (NET216).

Reset unit

NET204M

A device designed to receive an input from an external alarm source for example, a door bell push button or a lift alarm call point. Once activated it is reset by pressing the blue button. A red staff-to-staff alarm button is also provided and the same visit and presence facilities are included.

Reset unit

NET204

As the RED204M but using a magnetic key for the reset and alarm functions.

Push-to-call lead

NET206

Designed to plug into our range of nurse call units. It comes equipped with a sturdy lead 2.5 metres long with moulded jack plug and cable strain. A large orange button is provided for the patient to press with a finger or even the palm of their hand. If the lead is accidentally pulled away from the nurse call point, a call will be made to draw the fact to the attention of the carer. The lead is shown in its wall mounted holster that can be provided so the lead can be stored safely and neatly when not in use.

Push-to-call lead with linen clip

NET206c

Another version of our push-to-call lead with a linen clip to hold it safely at hand when the patient is sleeping or sitting in a chair.

Slave call unit

NET215

Sometimes located in double bedrooms or en-suite bathrooms. This unit has a large orange call button and a socket for a push-to-call lead. As is does not have any reset or staff-to-staff alarm feature it is installed in conjunction with one of our nurse call units.

Nurse call unit with infra-red receiver

NET207M

This call point has the same features and functions as the NET205M with the addition of an infra-red sensor. This sensor can be activated using one of our transmitters. We have transmitters especially designed for a patient to use and also for staff to carry. This type of call point is often installed in lounge areas so particularly vulnerable patients can be given a transmitter enabling them to call for assistance from their chair. Staff often carry a transmitter when they may be subject to an assault from visitors or patients, in these circumstances this type of call point would be installed throughout the building.

Nurse call unit with infra-red receiver

NET207

With the same features as the NET207M, but requiring a magnetic key for the staff functions.

RESET KEYS AND INFRA-RED TRANSMITTERS

Magnetic staff key

NET216

Economical key-fob style units used to operate various staff-only facilities. Staff can carry them to cancel calls, record room visits or to facilitate staff-to-staff and crash calls.

Patients infra-red call transmitter

NET208

This infra-red transmitter is ideal for patients to use as it has a large orange button that is easy to press. Used in conjunction with our range of nurse call points with an built-in infra-red sensor (NET207M). They come supplied with a neck cord with a break-strain adaptor.

Infra-red alarm transmitter

RED208/5

Staff carry this type of infra-red transmitter. It has two types of alarm call, one to summon assistance and another to summon more urgent help. Its uses vary from a medical alert to a staff attack alarm. A button is used to unobtrusively activate an alarm call on the nearest infra-red sensor. Pulling the transmitter away from its clothing clip activates the higher priority call. A button is provided to check the battery health, indicated by an LED array on the transmitter, furthermore the nearest infra-red sensors' reassurance light will flash to confirm a healthy signal.

ADDITIONAL EQUIPMENT

Over door light

NET210

Useful as options, these lights can be fitted outside each room to indicate that a call has been made. Staff often find them useful in the rapid location of calls. The light pulses red to signal the type of call and green to show that the call is being attended to and also staff presence.

Ceiling mounted pull switch

NET214

These switches are commonly used in bathrooms and toilets etc. They are fitted with 2.5 metres of orange cord and have two triangular pulls fitted for ease of use. They incorporate a red reassurance light to indicate that a call has been made.

Day/night volume control switch

NET211

Used to switch the indicator panel sounders from their day time to night time volume settings.

Weather resistant nurse call unit

NET255

Ideal when a nurse call point is required in an outdoor environment, for example a garden or a patio area.
A large green push button is used to call for assistance and another button resets the call.

Nurse call unit with stainless steel face plate

NET265M

This unit is manufactured on a stainless steel, flush mounting face plate. It has a raised red call button, a reset button and a reassurance light. Designed for environments where damage to standard nurse call points may occur. The design of this product can be altered to suit your requirements and specification, contact our sales team for further information.

Nurse call unit with stainless steel face plate

NET265

With the same features and functions as our NET265M, but using a magnetic key for reset.

DOOR MONITORING EQUIPMENT

Used to alarm fire exit doors, store rooms and controlled drugs cabinets. This equipment gives you a cost effective monitoring system fully integrated with the nurse call system.

Door monitor

NET218

Located adjacent to doors or drug cabinets, these units generate an alarm call if the door is breached. A key switch is provided to isolate the door monitor when a door needs to be opened, the same key is used to reset following an activation. A red reassurance light shows its status. A timed override feature is provided to allow staff to exit a door without it activating. This can be done by a simple magnetic key swipe (see NET216 staff key) or if a higher level of security is required by a coded access keypad.

Over door light with sounder

NET219

Used in conjunction with the door monitor, this indicator light can be fitted above a controlled door to indicate when an alarm call has been made. These over door lights are fitted with a sounder to attract attention audibly as well as visually.

Flush fitting door contacts

NET220

A magnetic door contact for fitting to timber doors. The switch and magnet are fitted flush for higher security.

Surface fitting door contacts

NET223

This magnetic door contact is usually used on metal doors or cabinets where flush fitting contacts are not suitable.

INTERFACE EQUIPMENT

Alphanumeric pager transmitter NET228

An alphanumeric paging transmitter used in conjunction with the NET229 pocket pagers. The pager is used to send text messages to the staff showing them the precise location where assistance is required. It can be configured to work as an on-site paging system with connections to a PC or telephone system. It is supplied with RS232 interface unit, connection lead and wave aerial.

Alphanumeric pocket pager NET229

Carried by response staff, these units can be programmed to bleep and vibrate, alerting staff that a call has been made. The pager's display shows the exact origin and the type of alarm call received. They are supplied with a belt clip holster and a bungee cord to reduce the chance of accidental damage.

Tone pager transmitter NET226

Ideal paging system when a tone pager is required to alert staff that a call has been made. Linked to the NET201 (HUB) and triggered by the on-board relay card, the transmitter sends a signal to the NET227 pagers. It is supplied with a wave aerial.

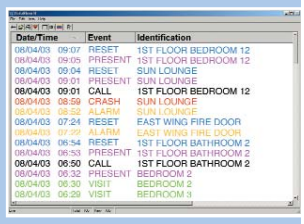
Tone pocket pager NET227

Carried by staff, these units bleep to alert staff that an alarm call has been made. Staff then consult a nearby indicator panel letting them know the exact origin of the call. They are supplied with a belt clip holster and a bungee cord to reduce the chance of accidental damage.

Datastore software package NET234

The software package enables all events on the Network II system to be logged on a PC. The date, time, location and type of alarm call will be recorded along with reset and fault reports. A dedicated PC and printer is not required and the programme can be minimised and run in the background.

- It is possible to print selected data using the PC's own printer.
- The information displayed can be filtered to only shown the data you are currently interested in i.e. all logged information for 1ST FLOOR BEDROOM 6.
- An alert popup window or sound can be set to inform you of a new event.
- The colours of the text, background and font can be altered to suit your requirements.
- Personal details can be entered for each identification in the log i.e. family contact details or drugs information.



Date/Time	Event	Identification
08/04/03 09:07	RESET	1ST FLOOR BEDROOM 12
08/04/03 09:05	PRESENT	1ST FLOOR BEDROOM 12
08/04/03 09:04	RESET	SUN LOUNGE
08/04/03 09:01	PRESENT	SUN LOUNGE
08/04/03 09:01	CALL	1ST FLOOR BEDROOM 12
08/04/03 08:59	CRASH	SUN LOUNGE
08/04/03 08:58	ALARM	SUN LOUNGE
08/04/03 07:24	RESET	EAST WING FIRE DOOR
08/04/03 07:22	ALARM	EAST WING FIRE DOOR
08/04/03 06:54	RESET	1ST FLOOR BATHROOM 2
08/04/03 06:53	PRESENT	1ST FLOOR BATHROOM 2
08/04/03 06:50	CALL	1ST FLOOR BATHROOM 2
08/04/03 06:32	PRESENT	BEDROOM 2
08/04/03 06:30	VISIT	BEDROOM 2
08/04/03 06:29	VISIT	BEDROOM 3

Data logging printer NET235

The printer enables senior staff to monitor each and every call, alarm and reset. The date and time of each event is recorded for future review. The printer has an on board battery in case of mains failure. The printer package also includes a plug top power supply, RS232 port, spare rolls of paper and a spare printer ribbon.

Due to a continued programme of development and improvement the equipment and/or specification may be subject to change without notification. Contact our sales team on 0191 272 2222 for further information.

Version 0.5K 04.08

SPECIALIST ALARM SERVICES

caring technology

Designed by Summers Design Associates

Specialist Alarm Services Ltd
Hinde House
Elswick East Terrace
George Street Industrial Estate
Newcastle upon Tyne
NE4 7LJ

Telephone 0191 272 2222
Fax 0191 272 5010
Web site www.sasuk.com
E-mail sales@sasuk.com