

CHANNEL

SAFETY SYSTEMS

Quantec

NURSE CALL



Nurse call system & dementia care
from Channel Safety Systems

Quantec

Nurse call system

Designed in conjunction with a prestigious NHS Trust, the Quantec nurse call system is widely regarded as the leading light in the provision of high-intensity dementia care.

In an environment where efficiency is paramount, Quantec delivers, helping save staff time, minimising disturbance and improving the quality of patient care.

The way the system operates can be tailored to suit a care facility's specific requirements with different day, night and call divert arrangements easily accommodated to meet the exact operational needs and precise layout of any building.

This flexibility, coupled with many advanced features such as multiple call levels and full monitoring of all network devices, makes Quantec the obvious choice for larger nursing homes.

Features

- Multiple call levels including standard, en suite, help required, emergency, attack, presence & attendance
- Tailored to suit a site's exact operational requirements
- Call accept feature
- Automatic call divert
- Illuminates overdoor lights and corridor lights
- Staff attendance allows staff entering rooms to log their 'attendance' via an infrared call point or ceiling receiver
- Call follower sounders (optional)
- Night mode allows Quantec to work in a totally different way at night, providing for fewer staff and reduced sound levels
- Infrared staff protection helps protect staff against disturbed patients, intruders and aggressive visitors
- 'Surveyor' data analysis software allows to output custom reports
- Optional paging facilities (DECT telephone capability also available)
- Low maintenance time and costs
- Laptop programmable system controller
- No expensive rewiring, no mess and no fuss
- Easy to install & expand
- Minimising disturbance

Applications

- Nursecall
- Dementia Care
- Staff Protection
- Emergency Assistance
- Cell Call
- Affray Locations
- Care Homes
- Hospitals
- GP Surgeries
- Hotels
- Leisure Centres
- Shops
- Offices
- Factories



Product Dimensions

- Height 270mm
- Width 435mm
- Depth 85mm

PRODUCT CODE	DESCRIPTION
N/QT601-2	Quantec addressable nurse call panel
F/CH24/3	3.2Ah 24V battery
N/CH385	Flush bezel for Quantec QT601-2

SPECIFICATIONS	
Mains supply	230V A.C 50/60Hz. Max. current 350mA
Internal Power Supply	27V DC (nominal)
Total output current limited to	3A @ 230V A.C
Max. switching current	25mA
Max. switching voltage	30Vd.c
Control and menu access buttons	Accept(A), Scroll Up, Scroll Down, Code Entry Buttons(1, 2, 3 & 4), Escape (E)
LED Indicator	Power Present (LED lit), No Power Present(LED extinguished)
Main Fuse	1 x 1 A HRC ceramic (20x5mm)
Battery Fuse	1 x 3.15 A F (20x5mm) this limits the current drawn from the battery
Weight	3.5kg (not including battery)

Sites currently benefitting from the Quantec Addressable Call System include



Prospect View
(Health Centre)
Worcestershire



Todmorden House (Health
Centre)
Yorkshire



St Kentigerns
(Hospice)
North Wales



Abraham Guest
(Secondary School)
Greater Manchester



PRODUCT CODE	DESCRIPTION
N/QT608C	Quantec display unit with controls
N/QT608CD	Quantec display unit with no controls



PRODUCT CODE	DESCRIPTION
N/QT603	Network splitter - required to protect the network from open & short circuit faults



PRODUCT CODE	DESCRIPTION
N/QT602	Quantec call point with reset button (remote socket)
N/QT602S	Quantec call point with reset button and sounder (remote socket)
N/QT602R	Quantec call point with reset button and I/R receiver (remote socket)
N/QT602RS	Quantec call point with reset button, sounder and I/R receiver (remote socket)
N/QT602M	Quantec magnetic reset/call unit (remote socket)
N/QT609RM	Quantec magnetic reset/call unit and I/R receiver (remote socket)
N/QT609	Quantec call point with reset button (no remote socket)
N/QT609S	Quantec call point with reset button and sounder (no remote socket)
N/QT609R	Quantec call point with reset button and I/R receiver (no remote socket)

Display Units

The Display Units indicate incoming calls to the system with the highest priority calls displayed first and a message to notify staff how many calls are waiting. The display has an on board sounder and buttons to accept, scroll and divert calls. The units are normally used in corridors, staff rooms, and nursing stations to enable staff to see the call details without having to go back to the control panel.

Product Dimensions

- Height 87mm
- Width 147mm
- Depth 35mm

Network Splitter

The N/QT603 network splitter is a requirement for a Quantec installation. It allows for fused distribution, creating 'limbs' of devices from the main panel. Their use protects the main panel from short circuit of network cable and devices. These should be considered as a must to protect the N/QT601-2 control panel.

Product Dimensions

- Height 87mm
- Width 147mm
- Depth 35mm

Call Points & Magnetic Units

Quantec's call points have two buttons, a red/green confidence light and (depending on the version purchased) a remote socket for connecting ancillary devices such as tail call leads. The type of call point used will depend on the type of operation (button or magnetic reset) and the system features you wish to take advantage of.

Please Note: infrared coverage may not be required in all rooms and infrared ceiling receivers are also available.

Product Dimensions

- Height 87mm
- Width 87mm
- Depth 35mm

Door Monitoring Station

The Monitoring points can be used to monitor any device with a open or closed switch.

It can generate either a standard or emergency level call (for example if a fire door or drugs cabinet door is opened) and can be used to interface other devices to the system. It comes with an isolation keyswitch and button reset.

Door contacts are not supplied.

Product Dimensions

- Height 87mm
- Width 87mm
- Depth 35mm



PRODUCT CODE	DESCRIPTION
N/QT604	Quantec door monitoring station with reset button
N/QT604M	Quantec door monitoring station with magnetic reset

Over Door Light

The N/QT606 slave over door light can be used to increase the call indication levels of the system. Positioned typically outside rooms and include two ultra-bright LEDS in a triangular diffuser.

N/QT606A addressable over door lights include an on board sounder and can be programmed to illuminate when certain groups of call points are calling.

Product Dimensions

- Height 87mm
- Width 87mm
- Depth 60mm



PRODUCT CODE	DESCRIPTION
N/QT606	Quantec slave overdoor light
N/QT606A	Quantec addressable overdoor light

Addressable Sounder

Designed to increase call indication levels in large sites.

N/QT688 Standard sounders include Quantec's default call tones and a volume control.

N/QT688/2 Hi-output sounders operate at up to 85dB and can be programmed with a wide selection of alarm tones using a N/QT423 configurator (default operation utilises Quantec's standard tones, special tones include HTM08-03 variants)

Product Dimensions

- Height 87mm
- Width 87mm
- Depth 60mm



PRODUCT CODE	DESCRIPTION
N/QT688	Quantec addressable sounder
N/QT688/2	Quantec addressable high output sounder

Ceiling Pull Unit



PRODUCT CODE	DESCRIPTION
N/QT607	Quantec ceiling pull cord unit

The N/QT607 ceiling pull generates a standard level call when a resident 'pulls' the cord, these are most commonly used in bathrooms. They have no on board reset function so a remote reset point is required.

N/QT607 slave ceiling pulls include a confidence light, 3m of cord and two triangular pulls and are typically used in en suites or WCs.

Product Dimensions

- Diameter Ø 93mm
- Depth 27mm

Tail Call Lead Buttons



PRODUCT CODE	DESCRIPTION
N/CH/805C/6	6ft (1.8m) tail call lead
N/CH/805/14	14ft (4.2m) tail call lead
N/CH/805/25	25ft (7.62m) lead cable (pear push)

Tail call buttons consist of a pear-shaped push, a lead and a plug that connects it to a call point's remote socket.

A call is made by pressing the button or by pulling the plug out.

Tail call leads are available in a variety of different lengths (as indicated below) to suit different applications.

Magnetic Reset Keys



PRODUCT CODE	DESCRIPTION
N/CH/803M	Magnetic reset key complete with keyring

The N/CH/803M magnetic reset keys are used to reset calls from made from call points such as N/QT602M.

Radio Receiver and Aerial

Radio receivers are designed for use with Quantec's dual action infrared/ radio transmitter. They allow standard and/or attack calls to be made from external areas such as car parks, loading bays, etc. Receivers must be mounted internally - typically in a building's roof space - where they can provide RF coverage of typically 60m (dependent on conditions/location).

An optional RF extension aerial is available for outdoor use and we recommend this for sites where the receiver is located close to large metallic objects or thick structural walls. In some cases external aerials can increase a receiver's RF coverage to typically 90m. For areas such as large car parks, it is not uncommon for multiple radio receivers to be used (for example, on adjacent walls) to ensure sufficient coverage. For sites with multiple, separately-managed areas, different radio receivers can be set up to respond to calls from certain transmitters only. This is done via an RF grouping facility whereby a receiver in, say, RF group 3, will only respond to transmitters assigned to the same RF group.

The default setting for all radio receivers and transmitters is RF group 1 (of 16). To help ensure the integrity of Quantec radio receivers, we recommend at least one monitored RF Integrity Transmitter is used with every radio receiver. Supplied on a single gang plate, they work by sending a periodic test transmission to the radio receiver. If the receiver fails to receive the test signal, it sends a fault message to the Quantec Controller to advise that something is wrong.

Product Dimensions

- Height 155mm
- Width 271mm
- Depth 170mm



PRODUCT CODE	DESCRIPTION
N/QT422RX	Quantec MK2 radio receiver
N/QT422RXEX	Extension aerial for N/QT422RX

Dual Action Transmitter

Quantec's rechargeable dual-action infrared/radio transmitter has a typical infrared transmitting range of 10m (line of sight) and a typical radio transmitting range of around 60m. With two infrared emitters (one on each side to maximise performance), two buttons (A & B) and a retained 'pull clip'.

Pressing a transmitter's buttons or activating its 'pull clip' will generate a standard, help required, emergency or staff attack call on a compatible infrared and/or radio receiver. The transmitter can be recharged fully in approximately 14 hours using the N/QT424/1, or the N/QT424/10, which is also available for sites with multiple transmitters.

The N/QT423 configurator complete with lead, adaptor and software (Windows 2000/XP/Vista/7) will allow an engineer to reprogram any of the above transmitters to suit the operational requirements of an individual site.

N/QT611 is a small multi-purpose programmable device that can be programmed to operate in a multitude of ways using a N/QT423 configurator. N/QT611 universal devices allow third-party switch assemblies and indicators to be interfaced to Quantec for use as call points, monitoring points or day/night switches.



PRODUCT CODE	DESCRIPTION
N/QT412RXA	Dual action infra-red/radio transmitter (push for attack/pull for attack)
N/QT423	Configurator for N/QT412RXA
N/QT611	Universal interface (call unit)
N/QT424/1	1-way charger for QT412RXA transmitters
N/QT424/10	10-way charger for QT412RXA transmitters



Infra-red Ceiling Receivers

Infrared ceiling mounted receivers are designed for use with Quantec's wide range of infrared transmitters.

They are usually located in bedrooms, corridors, common rooms and any other internal area that requires infrared coverage. Slave infrared ceiling receivers are also available (up to three per master infrared ceiling receivers or infrared call points to improve coverage in 'L' shaped rooms).

Dependent on the type of transmitter(s) used, master ceiling receivers allow standard and/or attack calls to be made. The type of calls that can be made from a slave ceiling receiver will depend on whether they are connected to a master ceiling receiver (standard and attack calls only) or an infrared call point (standard, help required, emergency and/or attack calls).

Product Dimensions

- Height 87mm
- Width 87mm
- Depth 35mm

PRODUCT CODE	DESCRIPTION
N/QT302RX	Quantec master infra-red ceiling receiver
N/QT302RXS	Quantec slave infra-red ceiling receiver



Transmitter Encoder

The transmitter encoder has two RS232 ports and eight dry contact inputs, which enables the system to be hard wired to alert prescribed users in an event. Supplied configured with default settings and are able to support up to 4 digit pager numbers as standard, so expansion is already built in.

The transmitter is designed to work at UHF frequencies which gives an incredibly high degree of reliability in terms of the signalling success within a commercial environment, whilst using very small and unobtrusive aerials.

Product Dimensions

- Height 190mm
- Width 335mm
- Depth 70mm

PRODUCT CODE	DESCRIPTION
N/QT5050/S	Quantec transmitter encoder
N/QT5050/LD	2m lead for N/QT5050/S



Portable Receiver

Features

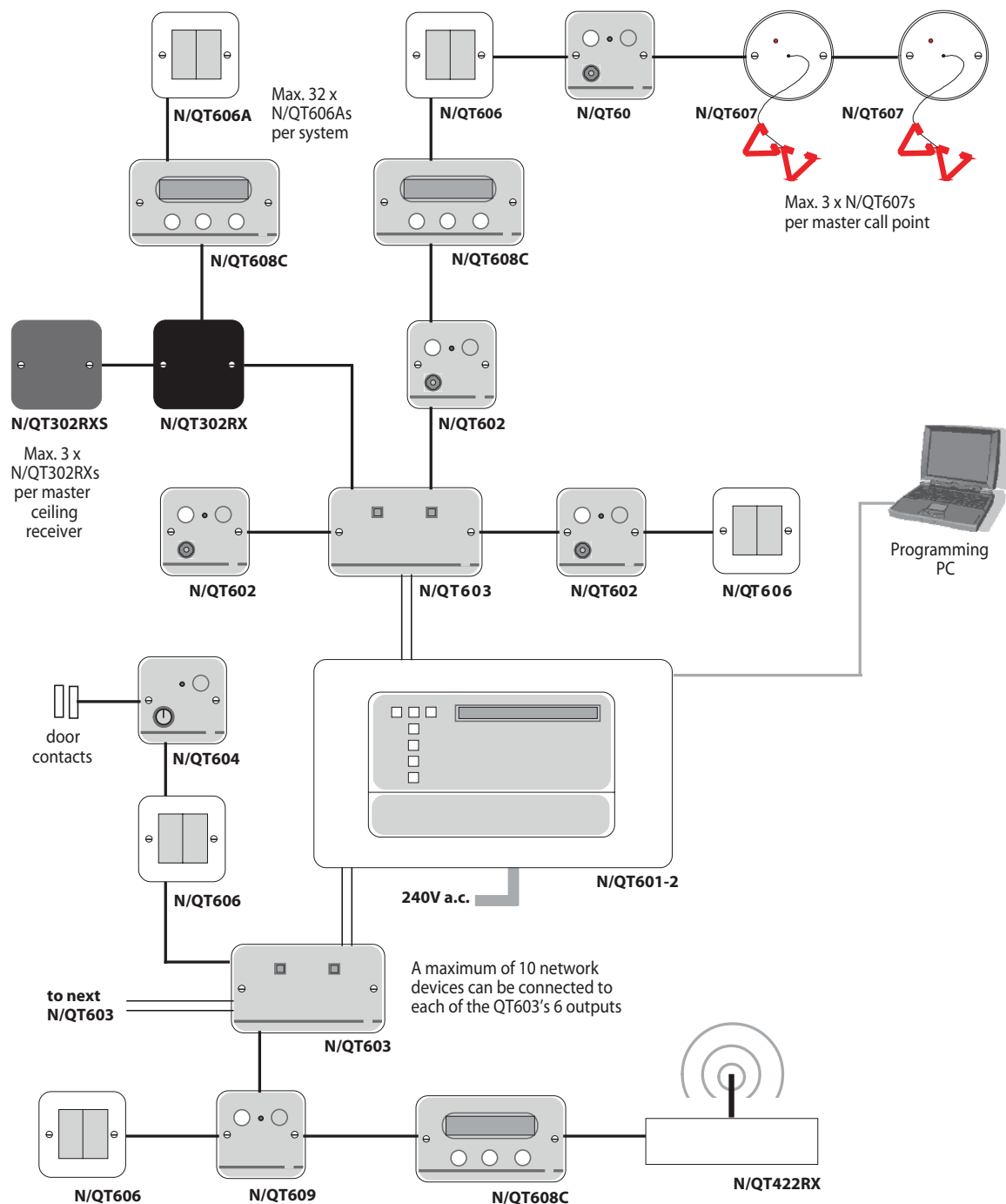
- 40 character alphanumeric pager
- Bright 20 character x 2 line display
- 6 addresses (selectable OFF/TONE/NUMERICAL/ALPHA)
- Pulsed vibrate modes
- Urgent call alert mode
- Anti-tamper modes.
- Address and frequency hand programmable
- Weight 50g without battery, requires single AAA battery

Product Dimensions

- Length 76mm
- Width 53mm
- Depth 17mm

PRODUCT CODE	DESCRIPTION
N/QT1001/S	Quantec portable receiver (pocket datapager)

Sample System Architecture



SPINE	_____
100m = 1.0mm ² twin and earth	
150m = 1.5mm ² twin and earth	
250m = 2.5mm ² twin and earth	
LIMB	_____
40m = 4 core stranded alarm cable	
60m = 8 core stranded alarm cable	



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Scan the code for further information and technical documents on the Quantec range

www.channelsafety.co.uk/quantec/

