QUANTEC NURSE CALL

Quantec can be compared to an analogue addressable fire alarm system where the integrity of the wiring is of paramount importance. However, with Quantec, a 'star' rather than a 'loop' wiring scheme is used.

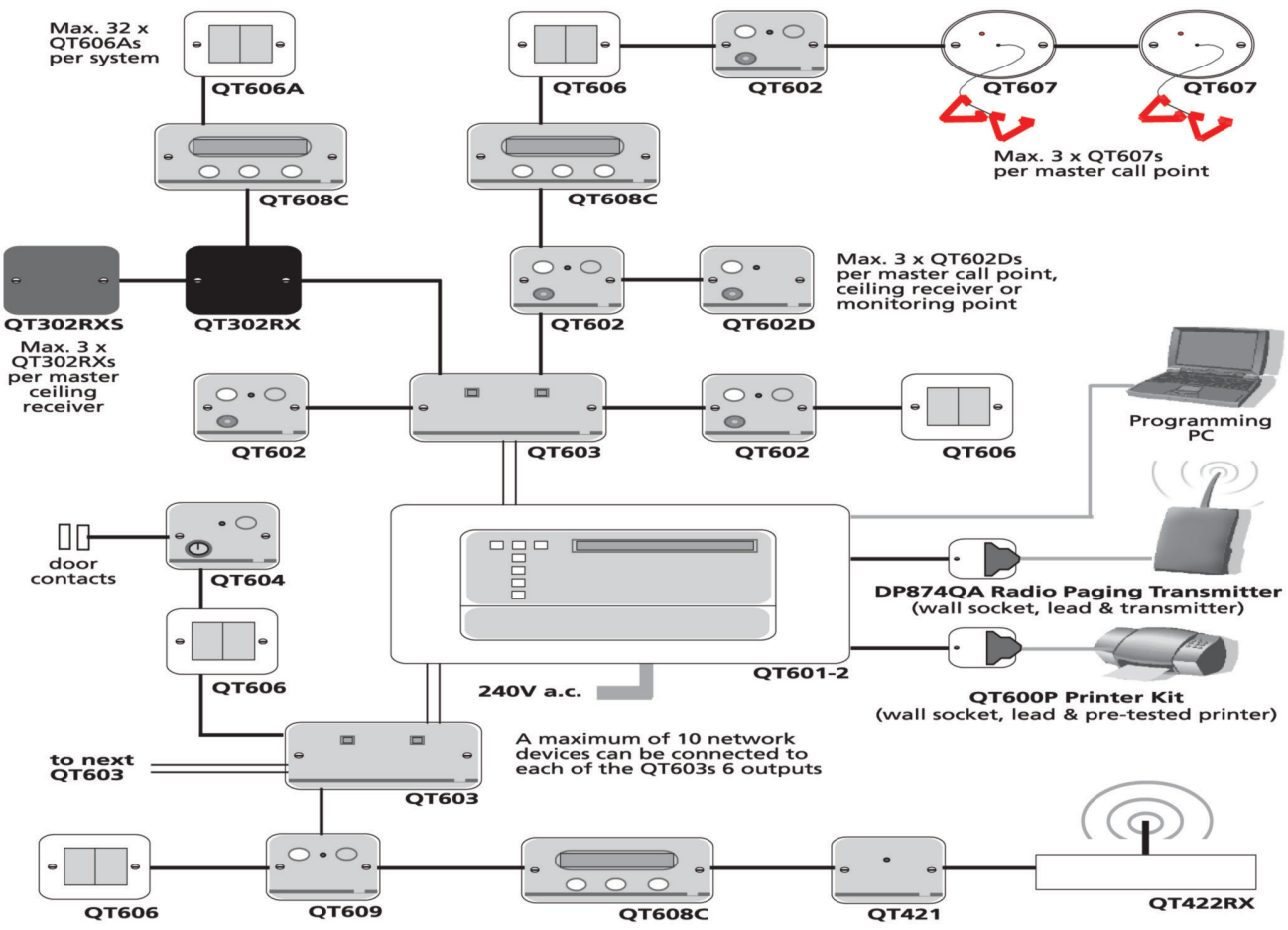
In order to allow the use of ordinary unscreened cables and reduce the risk of volt drop, the only method of wiring Quantec we recommend involves the use of 'network splitters' (QT603).

Network splitters have six fused 'limbs' for the wiring of individual sections of the system and they provide a convenient way of wiring, testing and protecting the system. In addition to simplifying the wiring and reducing volt drop, their fault and power LEDs also help find installation faults.

Each splitter has one input and one output network connection (both unfused) and six 'limb' outputs that are fused. The unfused connections are for the connection of the network 'Spine' which should normally be wired in at least 1 mm2 cable (e.g. T&E). No other networked devices should be connected to the spine except network splitters. The fused outputs i.e. 'Limbs' are for the connection of individual circuits containing networked devices. These should be wired in four or six core security cable. In excess of 60 addressable devices can be connected to each network splitter. Consequently four splitters are capable of accommodating an entire system. However, for larger systems and for convenience it is likely that more will be used.

As network devices are 'soft addressed' after installation no consideration need be made as to how different network devices will interact with each other. Within rooms, however, ancillary devices must be connected to a call point and it is simplest to loop in and out of slave overdoor lights (if fitted). If slave overdoor lights are not fitted, loop in and out of call points. The diagrams below show how this should be done in nursing home-type applications, but the same applies to other buildings too.

EXAMPLE WIRING OVERVIEW



SPINE
100m = 1.0mm² twin and earth
150m = 1.5mm² twin and earth
250m = 2.5mm² twin and earth

LIMB
40m = 4 core stranded alarm cable
60m = 8 core stranded alarm cable

QT600S	Wall socket	QT607	Ceiling pull
QT601-2	Quantec controller	QT608C	Display
QT602	Master call point (with remote)	QT302RX	Master ceiling receiver
QT603	Network splitter	QT302RXS	Slave ceiling receiver
QT604	Monitoring point	QT421	Radio 'heartbeat' plate
QT609	Master call point (no remote)	QT422RX	Radio receiver
QT606	Slave overdoor light	QT412RXA	Dual action transmitter
QT606A	Addressable overdoor light	Other devices are available	