QT432/QT432A/QT432W

INFRARED (IR) / RADIO FREQUENCY (RF) MK2 PENDANT TRANSMITTERS

IMPORTANT NOTE ABOUT COMPATIBILITY WITH QUANTEC SYSTEMS

These IR/RF pendant transmitters are <u>not</u> compatible with Quantec IR call points, IR ceiling receivers and RF receivers manufactured <u>before</u> year 2000. The new features, 'User ID', 'Low Battery Warning' and 'Attendance Calls', described below, will only work on compatible Quantec systems manufactured <u>after</u> 1 July 2010. If in doubt, please contact your vendor for advice.

ITEMS SUPPLIED (dependent on model purchased)

1 x QT432 patient neck pendant / QT432A attendance neck pendant / QT432W patient wrist pendant

- 1 x lanyard (90 cm end-to-end length, breakaway safety type) used with QT432 & QT432A
- 1 x wrist strap used with QT432W (pack of 10 spare wrist straps are also available Part No. QT432S) 1 x sheet of coloured markable labels
- 1 x user instruction (this document)

TRANSMITTER FEATURES

The pendant transmitters (shown right) allow users to activate calls on a Quantec system. They have the following features:

- can be worn either around the neck using a lanyard, or on the wrist using a wrist strap (dependent on model purchased).
- the transmitter generates both IR and RF signals when its pushbutton is pressed. These signals are sent to compatible Quantec IR call points / ceiling receivers and RF receivers.
- the Quantec Controller is sent a 'low battery warning' signal if the transmitter's battery charge is running low.

• each transmitter can be configured to generate different call levels including Call, Presence, Help Required, Reset or Attendance*. The default factory settings are Call (for QT432 & QT432W) & Attendance (for QT432A).

• each transmitter can be assigned a unique 'User ID' enabling Quantec to identify the caller by name. User ID's can be written on markable labels (supplied) in different colours to identify transmitters programmed with different call levels.

• the default call level and User ID assigned to a transmitter can be changed by using the QT423 Quantec Configurator (see 'RECONFIGURING THE TRANSMITTER' overleaf for details)

• by default, utilises Quantec's 'power save mode' which maximises the pendant's battery life. Note: 'Power save mode' is <u>not</u> compatible with 800 Series systems. Therefore, QT432 pendants used on 800 Series systems will have to be reconfigured using the QT423 Configurator to disable this feature.

* Attendance calls are only available with the QT432A.

TRANSMITTER OPERATION

- 1. To activate the transmitter PRESS its orange pushbutton. This will fill the local area with IR and RF signals.
- 2. Upon activation, the transmitter's confidence light flickers red to confirm that a signal is being transmitted.
- 3. The IR and RF signals generated by the transmitter are picked up by compatible Quantec IR call points, IR ceiling receivers and RF receivers within range of the transmitter.
- 4. The appropriate call response is performed by the Quantec system and the transmitter's call level, location and User ID are indicated at all relevant displays.



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ITEMS SUPPLIED (dependent on model purchased)

1 x QT432 patient neck pendant / QT432A attendance neck pendant / QT432W patient wrist pendant 1 x lanyard (90 cm end-to-end length, breakaway safety type) used with QT432 & QT432A 1 x wrist strap used with QT432W (pack of 10 spare wrist straps are also available - Part No. QT432S)

- 1 x wrist strap used with Q1432W (pack of 10 spare wrist straps are also available Pa 1 x sheet of coloured markable labels
- 1 x user instruction (this document)

TRANSMITTER FEATURES

The pendant transmitters (shown right) allow users to activate calls on a Quantec system. They have the following features:

- can be worn either around the neck using a lanyard, or on the wrist using a wrist strap (dependent on model purchased).
- the transmitter generates both IR and RF signals when its pushbutton is pressed. These signals are sent to compatible Quantec IR call points / ceiling receivers and RF receivers.



- the Quantec Controller is sent a 'low battery warning' signal if the transmitter's battery charge is running low.
- each transmitter can be configured to generate different call levels including Call, Presence, Help Required, Reset or Attendance*. The default factory settings are Call (for QT432 & QT432W) & Attendance (for QT432A).
- each transmitter can be assigned a unique 'User ID' enabling Quantec to identify the caller by name. User ID's can be written on markable labels (supplied) in different colours to identify transmitters programmed with different call levels.
- the default call level and User ID assigned to a transmitter can be changed by using the QT423 Quantec Configurator (see 'RECONFIGURING THE TRANSMITTER' overleaf for details)
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TRANSMITTER OPERATION

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- 3. The IR and RF signals generated by the transmitter are picked up by compatible Quantec IR call points, IR ceiling receivers and RF receivers within range of the transmitter.
- 4. The appropriate call response is performed by the Quantec system and the transmitter's call level, location and User ID are indicated at all relevant displays.



IMPORTANT NOTE ABOUT IR TRANSMISSION

As with most IR transmitters, the pendant emits directional IR signals with varying strengths (shown right). When triggered in the proximity of an IR receiver the pendant can be held in most orientations, as the IR signal will scatter and bounce to locate the receiver. A clear line of sight from transmitter to receiver is not essential.

At the extremities of the pendant's operating range (10 m), the IR signal becomes more directional and requires a clearer line of sight from transmitter to receiver. In this mode, performance is improved if the pendant is orientated in the direction of an IR receiver when triggered. Also, to improve transmission coverage, use more IR call points and IR ceiling receivers (installed no greater than 10 m apart).

TRANSMITTER BATTERY

Each transmitter is supplied with a 12 V alkaline battery, type A23/23A (8LR23), which is nonrechargeable. Do not use any other type of battery as this could damage the transmitter and void its warranty. Dispose of the battery following the manufacturers' recommended procedures.

The battery life depends on frequency of use but typically is between 6 to 12 months. Note: After activation, the transmitter's confidence light flashes once to confirm the battery is OK and flashes twice when the battery charge is low. Also, Quantec's datalogger records low battery signals; this log will need to be accessed to find out which units need their batteries changing.

To change the battery, simply back off the cover's locking screw 2 full turns anti-clockwise, then slide off the cover. Remove the used battery and replace with a new one, observing correct polarity (shown right). Replace the cover and retighten the locking screw; do not overtighten. Note: If you have changed a battery always test the transmitter before it is re-issued to its user.



(BATTERY COVER REMOVED)

RECONFIGURING THE TRANSMITTER (OPTIONAL)

The QT423 Quantec Configurator enables the transmitter's operation to be programmed to suit the requirements of a specific site. It allows a trained engineer to assign different call levels to a transmitter, enable/disable a transmitter's RF emitter, set a transmitter's User ID code (0 to 255) and RF Group Address (0 to 15), disable 'power save mode' for NC800 pendants. Note that a OT423A adaptor is required for connection to the OT423.

Refer to Document No. DNU0423000 for further details about the Quantec Configurator.

TESTING THE TRANSMITTER

The OT302RT Ouantec test IR ceiling receiver verifies the correct IR operation of the transmitters. It is recommended that at least one is used per system. Please be aware when testing the transmitter's IR operation that any radio receivers within its range may trigger at the same time.

TECHNICAL SPECIFICATION (FACTORY DEFAULTS)

Infrared
Radio frequency (RF868.3 MHz - this product is license exempt as per EN 300 220)
Radio range
Weight (including battery)
Overall dimensions (main body) W x H x D 46 mm x 67 mm x 17 mm
Ingress Protection rating IP 41
Battery 12 volt, type A23/23A (8LR23) alkaline (non-rechargeable)

** Dependent on receiver, physical conditions and environmental factors.

E&OE. No responsibility can be accepted by the manufacturer or distributors of this equipment for any misinterpretation of an instruction or guidance note or for the compliance of the system as a whole. The manufacturer of this equipment operates a policy of continuous improvement and reserves the right to alter product specifications at it sidiscretion and without prior notice.

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TECHNICAL SPECIFICATION (FACTORY DEFAULTS)

Infrared range	
Radio frequency (RF868.3 MHz	- this product is license exempt as per EN 300 220)
Radio range	
Weight (including battery)	
Overall dimensions (main body) W x H x D	
Ingress Protection rating	IP 41
Battery 12 volt,	type A23/23A (8LR23) alkaline (non-rechargeable)

** Dependent on receiver, physical conditions and environmental factors.

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