


- Complete Remote Control System
- 1 – 3 Channels
- 12 / 24Vdc Supply
- High Security  Protocol
- 'Easy Learn' Feature
- Easy Installation Via Screw Terminals.
- Up to 7 Transmitters per System
- Relay Outputs 5A @ 230Vac
- Momentary or Latching Outputs
- Robust Enclosure
- Requires No Radio Licence
- Range up to 30 Metres



## Description

A versatile general purpose remote control, which can be used for controlling many different applications. The system utilises the highly secure Keeloq code hopping protocol to ensure reliable operation.

Easy to install, the receiver is connected using standard 'screw terminals' provided. Power to the receiver is 12 or 24Vdc and the output(s) can switch up to 5A at 230Vac.

The receiver outputs operate when the transmitter switch is pressed. The outputs can be set to 'momentary' or 'latching' operation.

The system is supplied ready to 'plug and play', in addition a further 6 transmitters can be 'learnt' by the receiver.

## Remote Control System

| Part Number | Description         | Freq (MHz) | Range** (Metres) |
|-------------|---------------------|------------|------------------|
| QS1         | AM System 1 Channel | 433.92     | 30               |
| QS2         | AM System 2 Channel | 433.92     | 30               |
| QS3         | AM System 3 Channel | 433.92     | 30               |

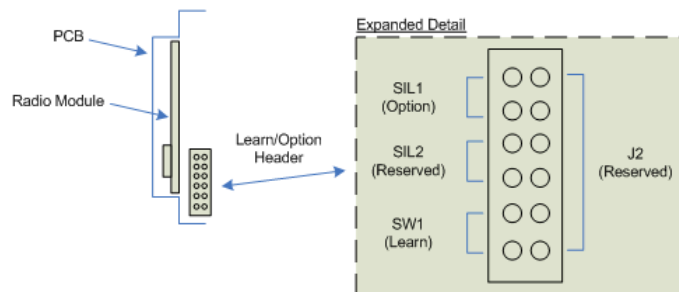
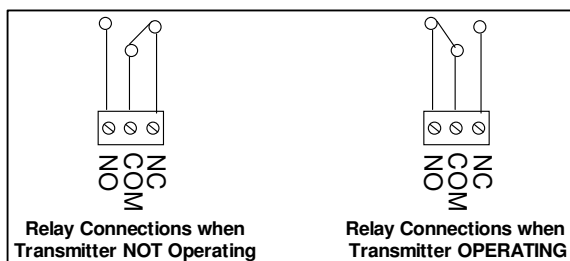
## Additional AM Transmitter Keyfobs

| Part Number | Description                 |
|-------------|-----------------------------|
| QTX1        | Transmitter Keyfob 1 switch |
| QTX2        | Transmitter Keyfob 2 switch |
| QTX3        | Transmitter Keyfob 3 switch |

\*\* Range stated is optimum, direct line of sight. In worst conditions this can be reduced.

## Data Outputs

Each output relay provides an isolated switch. Connections are Common (COM), Normally Open (NO) and Normally Closed (NC).



The action of the relay outputs is set by the 'SIL1' Option link setting. A link is made / removed by the small shorting link 'cap' placed over the pin header.

Option Fitted = Momentary Operation

Option Not Fitted = Latching Operation

Please Note: The relay contacts in this unit are for functional use only and must not be used for isolation purposes

## Learning a New Transmitter Keyfob Switch

1. Short the two SW1 'learn' pins on the receiver PCB, the receiver relays will click continuously.
2. Press the transmitter once, the receiver relays will stop
3. Press the transmitter again, the receiver relays will 'buzz' briefly. This transmitter will now operate the system.

## Erasing Existing Transmitters

1. Short the two learn pins on the receiver for 10 seconds.
2. The receiver relays will 'buzz' briefly after the 10 seconds to indicate the Tx encoder(s) have been erased

**NOTE:** You can not erase individual Tx encoders

## Technical Specifications

### Transmitter Keyfob

Battery Type GP23AE (supplied)

| Electrical Characteristics    | Min | Typical | Max | Units |
|-------------------------------|-----|---------|-----|-------|
| Supply Voltage                | 8.5 | 9       | 16  | Vdc   |
| Supply Current : Quiescent    |     | 0       |     | mA    |
| Supply Current : Transmitting |     | 8       |     | mA    |
| Operating frequency           |     | 433.92  |     | MHz   |

### Receiver Decoder

Dimensions 96mm x 55mm x 29mm

| ELECTRICAL CHARACTERISTICS |                      | MIN | TYPICAL | MAX | DIMENSION |
|----------------------------|----------------------|-----|---------|-----|-----------|
| Supply Voltage             | for +12Vdc           | 11  | 12      | 13  | Vdc       |
|                            | for +24Vdc           | 23  | 24      | 25  | Vdc       |
| Supply Current:            | Quiescent            |     | 14      |     | mA        |
|                            | All relays operating |     | 140     |     | mA        |

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