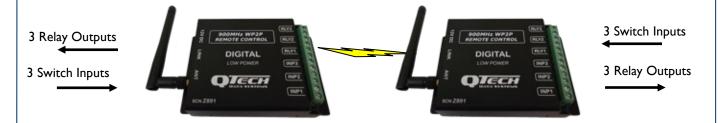# Wireless Point to Point Systems

### Low power, low cost, wireless remote control solutions
### The perfect alternative to using multicore cables

**The Low Power WP2P**
**Wireless Point to Point System**

3 Relay Outputs

3 Switch Inputs

3 Switch Inputs

3 Relay Outputs

Close a switch contact at one end and a relay operates at the other end and vice versa

## Save time and money with the QTech remote control solutions!

The Wireless Point to Point (WP2P) system is a wireless remote control solution. It has three switched inputs & three relay outputs, simply close a switch and the relay at the far end operates.
This allows you to remotely monitor & control three devices wirelessly, without needing to install long and expensive cables that can be damaged.

There is no configuration or programming required, simply wire the connections, connect the power, and go!

This innovative and cost effective systems allow you to:

- Switch a pump, irrigator or solenoid valve on and off remotely
- Confirm if your irrigator is switched on and pumping water
- Open an electric gate and then turn on a light
- Send signals from a flow meter across a field, without installing expensive cables
- Replace an existing 6 core cable with wireless technology

### Key Features include:

- Low power consumption, ideal for solar or even battery installations
- No programming or configuration and easy mounting and installation
- Line of sight operational ranges of ~350m with the supplied aerials: ~2km with whips: ~4km with Yagi aerials
- State of the art digital radio using 900MHz Frequency Hopping Spread Spectrum (FHSS) technology
- New "Link status LED" provides confirmation that the two modules are communicating
- Very competitive pricing

All radio systems work most reliably with "clear line of sight" between the modules. If you have an installation where this is not possible, consider using the optional QTech

# QTech - Wireless Point to Point Systems
## Low power, low cost, wireless remote control solutions

## Application Examples:

Irrigation Scheme Remote Control and Monitoring



When the tank is empty a light will turn on



Use a repeater module to increase the range or 'see' around obstructions



WP2P Module     Repeater Module     WP2P Module

## Inputs and Outputs

- Qty 3x Switched Input (normally open N/O, close to activate)
- Qty 3x Volt free relay contact (normally open N/O)
- Maximum total switching current 2 Amps @ 32 V DC

## Specifications

- Frequency     921.5MHz to 928.0MHz
- RF Output     100mW
- Technology     Frequency Hopping Spread Spectrum
- Aerial connector     SMA
- Dimensions     L 112 x W 76 x D 25 mm
- Enclosure     Steel, powder coated
- Power connector     2.1mm DC jack, centre positive
- Supply Voltage     6 V—24 V DC  (max 28 V DC)
  Short circuit and reverse polarity protection
  Power supply must not be switch mode  not double insulated
- Current Consumption     6mA Typical
- Weight     Less than 350g

## Mechanical Mounting

- Qty 4 x M4 fixing holes at 102 x 50mm centres

## Performance

- Indoor/Urban line of sight    up to 350m with supplied stub aerial (2.1dB dipole aerial)
- Outdoor line of sight    up to ~2km with optional external whip (3dB aerial)
- Outdoor line of sight    up to ~4km with optional Yagi (9dB Yagi aerial)
- Receiver sensitivity    -110dBm

Please note:   Distances are indicative only (terrain dependent)

## Certification

- AS/NZS 4268:2008

## Radio Network Options

- Frequency bands    6 frequency bands allow 6 separate systems to be used in the same location, all colour coded
- Radio Code    Six digit code assigned to all devices providing security.  All modules in a system need the same code to operate

## Ordering Details

WP2P System     PD8810-WP2P

Options and spares

| | |
|---|---|
| Power Supplies | PD5412 Plug Pack or PD5414 flying lead wire able |
| | PD5413 110V AC input version with flying lead |
| Power Cables | CB-QDR-PWR - 1m DC power lead |
| External Whip | PD9218 with 5m coax &, mounting bracket |

Please refer to the Quick Start Guide for further technical details.

12 Midas Place
Middleton
Christchurch 8024
New Zealand

Phone:   +64 3 3663713
Fax:   +64 3 3652815
E-mail:   sales@qtech.co.nz
Web:   www.qtech.co.nz