

## The gulf Pump Control Unit (PCU)

is a wireless receiver capable of switching a high current output, typically used to activate a contact breaker circuit to start or stop a pump. It is used in conjunction with a gulf ICI or RICO transmitter to provide a complete wireless switching system for irrigation valve control. It can also be used with up to 5 Gulf Tank Level Controllers (TLC) to allow remote automatic level control for water tanks or dams.

The PCU receives instructions from the transmitter and activates an internal solid state relay switch in order to control the external equipment.

The PCU can also be manually controlled by pressing the On/Off button on the keypad. The PCU has a standard BNC antenna connector to which a rubber-duck antenna is fitted as standard. For longer range applications this may be replaced with an external dipole or directional antenna.



### Main Features

- Internal solid state relay capable of switching 2 Amps maximum through to the external equipment e.g. 3-phase contact breaker.
- Manual Switching – The pump can be operated from the PCU itself without the need to operate the transmitter.
- Highly sensitive micro-controlled receiver with built-in error correction.
- Built-in surge protection provides protection against transient voltage spikes on the power supply.
- Auto Learn Mode – The PCU learns the unique ID of the transmitter without having to set any DIP switches.
- Range Test Feature – Each time the transmitter sends a Range Test command the PCU responds by flashing a the Range Test LED indicator.
- Automatic shutoff period of 9 minutes as safety feature unlikely event of signal failure.
- LED indications for Learn Mode, Output Status and Range Test.
- High Pressure Input – can be used for system shutdown if high pressure situation develops

## **High-Current Switch Specifications**

- Max current : 2 Amps
- Operating voltage range: 110V AC to 380 V AC rms
- Max frequency 50/60Hz

## **Power Supply**

- Internal 220 V AC transformer.
- Peak current consumption: 200mA
- Average current consumption: 20mA

## **Environment**

- Housing is IP67 rated.
- Operating Temperature –10 Celcius to +70 Celcius

## **Physical**

- Dimensions of housing 157mm x 140mm x 60mm.
- Antenna length including BNC connector 162mm.
- Weight: 450g.

## **Notes:**

The Manufacturer reserves the right to change without prior notice any of the above-mentioned properties of the product.

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