

The Gulf Tank Level Controller (TLC) uses sensor inputs to monitor the level in a water tank or dam. When the water level changes the TLC sends a radio control signal to the Pump Control Unit (PCU) to switch the pump on or off.

The TLC is normally powered by long-life lithium batteries but can optionally be supplied from an external 12V DC or 24V AC supply if available.

The unit can be used either with a float switch or with up to 4 different level probes. When operated with multiple probes the TLC is capable of switching a total of 4 pumps – one pump per level probe. The TLC 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

- Automatic wireless control of up to 4 different pumps when used with level probes.
- Automatic wireless control of a single pump when used with a float switch.
- Manual override allows remote pumps to be controlled by simple key presses on the keypad. Manual mode overrides automatic mode allowing convenient maintenance of your system.
- Digitally encoded signal with multiple burst transmission is used to ensure signal integrity.
- Unique Factory Encoding – Each TLC is uniquely encoded at the factory to ensure that only the required Pump Control Unit is activated i.e. prevents interaction with neighboring systems.
- Learn Mode – Utilizes a very simple technique to “marry” together the TLC and Pump Control Units (PCU) without any setting of switches. Allows easy replacement of a PCU should the need arise.
- Range Test Mode – The TLC can be easily placed into Range Test mode allowing the installer to test reception on the Pump Control Unit in the field.
- Simple LED indications are given indicating the current status of each pump.

Radio Frequency Transmitter

- 315MHz or 433.92 MHz \pm 20kHz
- Range (line of sight) \pm 5 kms with standard rubber duck antenna (environmental conditions permitting).
- Range (line of sight) > 8 kms with external dipole antenna (environmental conditions permitting).



- BNC Connector coaxial cable connector

Power Supply

- 3.6V D-type lithium battery (supplied) or external 12V DC or 24V AC, 1A supply with 2.1mm DC power plug.
- Max current consumption 0.25 Amps
- Average current: 750uA

Environment

- Housing is splashproof
- Operating Temperature –10 Celcius to +70 Celcius

Physical

- Dimensions of housing 157mm x 140mm x 60mm (not including antenna).
- Antenna length including BNC connector 162mm.
- Weight (including antenna) 600g.

NOTE – Due to continuous improvements and developments the manufacturer reserves the right to change without prior notice any of the above-mentioned properties of the product.