

The gulf Irrigation Controller

(RICO) is a wireless irrigation controller, allowing control of either 16 or 48 zones. It is a powerful and easy to use device and is recommended for users with access to a computer on which the RICO16/48 scheduling software is run. Once the schedules are set up on the PC they are downloaded into memory on the RICO and the unit is then capable of running completely in standalone mode without



the need of a connection to the PC. While the PC remains connected the screen is updated with feedback information allowing the operator to see at a glance which irrigation programs are running, which zones are currently operating and the amount of watering time left for each zone. The RICO acts as the base transmitter unit and must be used in conjunction with Gulf Valve Control Units for a complete wireless irrigation solution.

Main Features

- RICO 48 - 10 independent programs, 12 start cycles per program, each program capable of running at same time as another.
 - RICO 16 - 5 independent programs, 6 start cycles per program, each program capable of running at same time as another.
 - RICO 48 Wireless control of up to 48 zones.
 - RICO 16 Wireless control of up to 16 zones.
 - RICO unit can run standalone without a PC connection.
 - Zone timing from 1 minute to 15 hours.
 - RICO 48 - Each program can be set to automatically start up to 10 different pumps or Master Valves.
 - RICO 16 - Each program can be set to automatically start up to 3 different pumps or Master Valves.
 - Zone Re-Sequencing – The irrigation sequence order can be changed easily per program using drag and drop.
 - Zone linking – several zones in a program can be linked to operate simultaneously.
 - Seasonal Adjustment of timing from 10% to 200%.
 - Rain Delay inhibit from 1 to 7 days (operated either from PC or unit keypad).
 - Schedules by day of week, intervals or odd/even day.
 - Manual zone operation or whole program operation.
 - Zones can be set up to control pumps, flush filters, fountains etc.
 - Each zone can be given a meaningful name instead of operating purely by zone number.
 - Unique Factory Encoding allows different RICO systems to operate within range of each other.
 - Step by step, installation guide running on PC makes installation easy.
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Transmitter

- 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

- 12 V D.C. external transformer (supplied).
- Max current consumption 0.25 Amps
- Average current 50 mA

Environment

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

Physical

- Dimensions of housing 162mm x 80mm x 57mm (not including grommet, cable and antenna).
- Antenna length including BNC connector 162mm.
- Weight (including cable and antenna) 430g.

Communications Interface

- RS232 connector to PC. 8 data bits, 1 stop, no parity, no flow control.
- USB connectivity (available soon).

PC Requirements

- Windows 98 or later, 64 MB RAM, Intel Pentium 1, 266Mhz or faster, VGA Colour Graphics card, RS232 Serial Port (or USB port with USB to Serial Adapter).

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.
