

# AQUATERR

## Valve Actuating Receiver Pole Mount Version with Solar Panel

The only wireless valve actuator available with five mile uninterrupted reception

*Lowest Cost to Automate.* The cost of the automation equipment is far less expensive than the cost to dig and bury wires, especially for long or obstacle-ridden runs. It is more cost effective to replace buried wire system with the Aquaterr wireless VAR system than to continuously repair wires that have been chewed by rodents or damage by earth moving equipment.

*Non line-of-site* radio signals. Line-of-site transmitters have to be able to “see” their receivers. Obstacles such as building, trees, and hill block transmissions. With Aquaterr’s wireless system, these obstacles are transparent. The non-line-of-site signals are reliably received by Aquaterr VARs for a radius of five miles.

*Qualifies as a water conservation* green product. Check with your local governing agencies to see if a green product rebate may apply to you. When moisture sensors are used, watering is only permitted when soil moisture properties require watering, as individually programmed for your watering needs. Sensors buried at various depths determine if watering should begin. Safety overrides are individually programmed for each valve to prevent over watering.

*Uses 1 re-chargeable Lithium battery*, charged by a solar panel and can function for up to 5 years without battery replacement.

*No radio license* purchase is required for this radio system, and no radio fees. These radio communication airwaves are FREE!



VAR-1  
VAR-2  
VAR-4

### *How it works.*

Interfaces seamlessly between your existing Commercial Irrigation Controller and you valve’s latching solenoid. Receives encoded and redundant radio signals from an Aquaterr radio transmitter, which communicates commands originating from your irrigation controller.

- 5-mile reception regardless of terrain.
- True non-line-of-site wireless communications.
- Works with any controller, any valve; any solenoid.
- No radio licensing fees. No cellular costs.
- Encoded redundant transmission assure communication regardless of weather or electrical interference.
- Significant cost saving for installation and maintenance.
- Optional moisture sensor save water.
- Eligible for government rebates.
- One Lithium battery charged by a solar panel.

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Aquaterr's Pole Mount Valve Actuating Receiver's (VAR's) are ideal for both agriculture and turf applications. Whether your system is manual or wired, if you are ready to implement an automated irrigation plan, Aquaterr's family of wireless solutions may be your best option.

For manual system, wireless conversion is the least cost route towards automations. Simply change to an electric valve with latching solenoid. No digging to bury wires. It operates with any manufacturer's commercial irrigation controller, designed to control solenoids.

System with buried wires often experience problems from earth moving equipment, or ground creatures chewing wires. Sometimes it is just not economical to bury more wire, especially in turf applications where concrete or other obstacles are in the wire path.

The best automation choice, the one that offers the fastest return on investment in most cases, is wireless. In addition, Aquaterr's wireless solution has the security to assure your valves always turn on and off at your command. Aquaterr's wireless system has no radio licensing fees, unlike most others. Most importantly, the radio signals are fool-proof, and unable to be tempered with. Each transmitted instruction is encoded, with redundancy and overwatering, protection to assure successful irrigation.



*The Aquaterr Programmer portable device is used to program various unique parameters in both the VAT (transmitter) and VAR (receiver). See User Manual for full details.*

### Specifications

|                        | <b>VAR-2 P Solar</b><br>Operate 2 Valves          | <b>VAR-4 P Solar</b><br>Operate 4 Valves          |
|------------------------|---|---|
| Signal Receiving Range | 5 miles   | 5 miles   |
| Operating Voltage      | 3.7V DC   | 3.7V DC   |
| Battery Type           | 1 Lithium Cell Battery                            | 1 Lithium Cell Battery                            |
| Output Operation       | 9-12 v latching solenoid                          | 9-12 v latching solenoid                          |
| Max Wire Run (cum)     | Up to 1000 ft                                     | Up to 1000 ft                                     |
| Wire Type              | 14 - 16 AWG insulated                             | 14 - 16 AWG insulated                             |
| Fail Safe Shutdown     | Programmable                                      | Programmable                                      |
| Manual Actuate         | Switch/Programmer                                 | Switch/Programmer                                 |
| Unit Identification    | Field programmable                                | Field programmable                                |
| Enclosure              | Weatherproof UV resistant plastic                 | Weatherproof UV resistant plastic                 |
| Mounting Height        | 2 to 6 feet (61 to 183 cm)                        | 2 to 6 feet (61 to 183 cm)                        |
| Mounting Method        | 1 - 1 1/2 inch pipe (2.54 - 3.81 cm)              | 1 - 1 1/2 inch pipe (2.54 - 3.81 cm)              |
| Size                   | 12.5 x 5 x 4 inches, 31.75 x 12.7 x 10.16 cm      | 12.5 x 5 x 4 inches, 31.75 x 12.7 x 10.16 cm      |
| Weight                 | 1.35 lbs (0.613 kg)                               | 1.37 lbs (0.622 kg)                               |
| Shipping Size          | 14.25 x 5.3 x 4.3 inches, 36.2 x 13.57 x 10.92 cm | 14.25 x 5.3 x 4.3 inches, 36.2 x 13.57 x 10.92 cm |
| Shipping Weight *      | 1.85 lbs (0.84 kg)                                | 1.87 lbs (0.85 kg)                                |
| Warranty               | One year  | One year  |

#### Aquaterr

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