

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 systems with the Aquaterr wireless VAR system than to continuously repair wires that have been chewed by varmints or damaged by earth moving equipment.

Non line-of-site radio signals. Line-of-site transmitters have to be able to “see” their receivers. Obstacles like buildings, trees, and hills block transmissions. With Aquaterr’s wireless system, these obstacles are transparent. Non-line-of-site also transmits further, which is why the Aquaterr VAR will reliably receive signals for a radius of five miles.

Qualifies for water conservation rebates by governments throughout the world. Check with your local governing agencies to see if a 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.

Solar panels keep actuators powered up, and when powered-up, can function for several weeks without sunshine! The re-chargeable batteries last up to five (5) years.

No radio license purchase is required for this radio system, and no cellular phone bills. These radio communication airwaves are FREE!



How it works

Interfaces seamlessly between your existing Commercial Irrigation Controller and your 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 transmissions assure communication regardless of weather or electrical interference
- Significant cost savings for installation and maintenance
- Optional Moisture Sensors save water
- Eligible for government rebates
- Five year solar rechargeable batteries

Valve Actuating Receiver - 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 Wireless System may be your best option.

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

Systems 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. And 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. And no cellular costs, either. Most importantly, the radio signals are fool-proof, and unable to be tampered with. Each transmitted instruction is encoded, with redundancy and overwater 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

	VAR-1 and VAR-2 <i>Operates 1 and 2 valves</i>	VAR-4 <i>Operates 4 valves</i>
Signal Receiving Range	5 miles	5 miles
Operating Voltage	4VDC	4VDC
Battery Type	4VDC, 2.5AH	4VDC, 2.5AH
Rechargeable by	Solar panel	Solar panel
Output Operation	9-12v latching solenoid	9-12v 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
Unit Identification	Field programmable	Field programmable
Enclosure	Weatherproof UV resistant plastic	Weatherproof UV resistant plastic
Mounting Height	6 feet, minimum	6 feet, minimum
Mounting Method	1 - 1 ½ inch pipe (2.54 – 3.81 cm)	1 - 1 ½ inch pipe (2.54 – 3.81 cm)
Size (inches)	12.5 L x 5 W x 4 H inches (31.75 x 12.7 x 10.16 cm)	14 L x 5 W x 4 H inches (35.56 x 12.7 x 10.16 cm)
Weight	2.4 lbs (1.07 Kg)	2.6 lbs (1.17 Kg)
Shipping Size	14.25 L x 5.3 W x 4.3 H inches (36.2 x 13.57 x 10.92 cm)	14.25 L x 5.3 W x 4.3 H inches (36.2 x 13.57 x 10.92 cm)
Shipping Weight	2.9 lbs (1.3 Kg)	3.1 lbs (1.4 Kg)
Warranty	One Year	One Year

Options: Ground level valve box - Latching Solenoid - Moisture Sensor

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