

The only Wireless Valve Actuator with two mile uninterrupted reception

Install level with Terrain – on existing or new valve box. The operating components are safely concealed from the environment in a watertight enclosure with no external or protruding objects, minimizing the threat of vandalism.

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 two miles.

Lowest cost to automate. The cost of the Aquaterr system is far less expensive than the cost to dig and bury wires. 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.

Qualifies for water conservation rebates by governments throughout the world when equipped with optional moisture sensors. Check with your local governing agencies to see if a rebate may apply to you. When 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 rechargeable batteries last up to five (5) years before replacement.

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



VAR Box Cutaway



VAR Box

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 instructions originating from your irrigation controller.

- High strength industrial grade valve box protects electronics, solar panel and antenna
- Wireless – No wires to bury or maintain
- Two mile radius reception regardless of terrain with no radio licensing fees or cellular bills
- Mounts flush to terrain to prevent vandalism and breakage
- Significant cost savings for installation and maintenance
- Watertight enclosure for submerged continuous operation
- Works with any brand Controller, Electric valve and latching Solenoid
- Solar rechargeable five year battery
- Encoded redundant transmissions assure communications regardless of weather or electrical interference

Valve Actuating Receiver - Box Mount

Box mounted Aquaterr Valve Actuating Receivers are ideal for high traffic turf applications, especially where vandalism needs to be discouraged and avoided. Whether your current 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 existing 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 irrigation controller.

Existing buried wire systems often experience damage to wires 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 for long wire runs, is AQUATERR Wireless. It offers the quickest installation, lowest lifetime maintenance, and in many cases, the lowest initial purchase/installation out of pocket cost. 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. Most importantly, the radio signals are fool-proof, and cannot 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-1B Operates 1 valve	VAR-2B Operates 2 valves	VAR-4B Operates 4 valves
Signal Receiving Range	2 miles	2 miles	2 miles
Operating Voltage	4VDC	4VDC	4VDC
Battery Type	4VDC, 2.5AH	4VDC, 2.5AH	4VDC, 2.5AH
Rechargeable by	5W Solar panel	5W Solar panel	5W Solar panel
Output Operation	9-12v latching solenoid	9-12v latching solenoid	9-12v latching solenoid
Fail safe shutdown	Programmable	Programmable	Programmable
Manual Actuate	Switch	Switch	Switch
Unit Identification	Field programmable	Field programmable	Field programmable
Enclosure	Weatherproof UV resistant plastic	Weatherproof UV resistant plastic	Weatherproof UV resistant plastic
Mounting Height	To grade	To grade	To grade
Mounting Method	Under valve box cover	Under valve box cover	Under valve box cover
Size	15 x 21.5 x 12 inches, 38.1 x 54.6 x 30.5 cm	15 x 21.5 x 12 inches, 38.1 x 54.6 x 30.5 cm	15 x 21.5 x 12 inches, 38.1 x 54.6 x 30.5 cm
Weight	13.7 lbs (6.1 kg)	13.7 lbs (6.1 kg)	13.9 lbs (6.2 kg)
Shipping Size	16 x 24 x 14 inches, 40.6 x 61 x 35.6 cm	16 x 24 x 14 inches, 40.6 x 61 x 35.6 cm	16 x 24 x 14 inches, 40.6 x 61 x 35.6 cm
Shipping Weight *	15.7 lbs (7 Kg)	15.7 lbs (7 Kg)	15.9 lbs (7.1 Kg)
Warranty	One Year	One Year	One Year

*Valve box with VAR mounted cover

Options: Pole mounted VAR - Latching Solenoid - Moisture Sensor

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