

AQUATERR

Irrigation Monitoring and Control

Simple and Easy to Install Irrigation Monitoring & Control

Key Benefits:

- Wireless – No wires to bury.
- Landscape friendly – just 3 inches above grade.
- Controls any electric valve.
- Works with any mechanical & Electronic Flow Meter sensors.
- Operates with any commercial Irrigation Controller.
- Redundant transmissions assure accurate communication.
- Flow Meter Monitor runs on eight alkaline “D” cell batteries that last for two years.

Key Features:

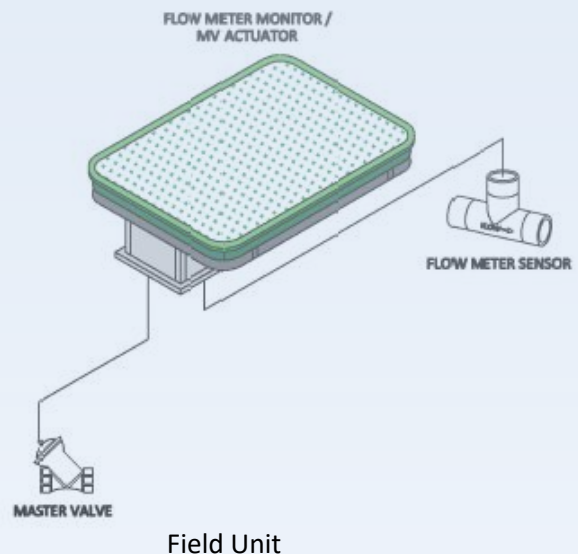
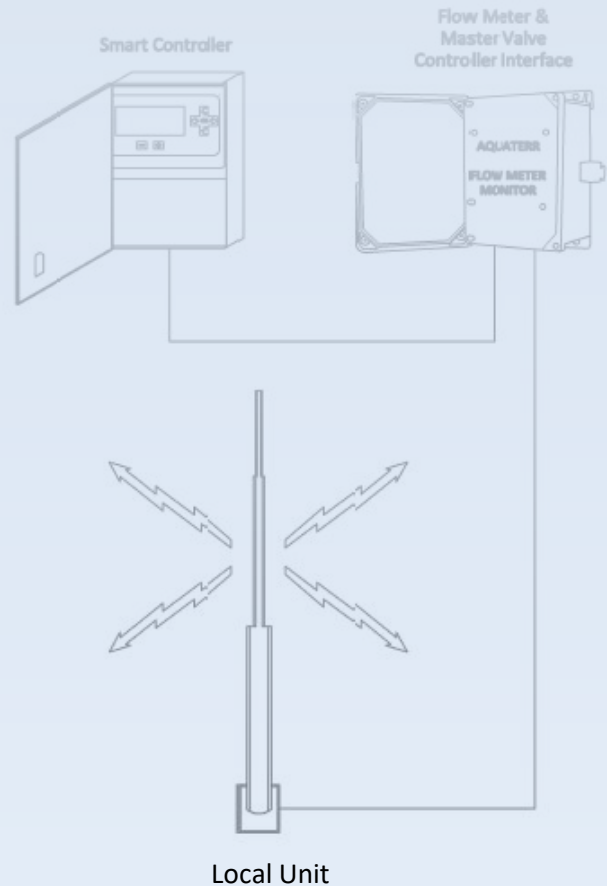
Interface to all commercial irrigation Controllers.

Simply connect wires from the controller that now go to the Master Valve solenoid, to Aquaterr’s FM/MV-CI, Controller Interface unit, and connect the Flow Meter output wires from Aquaterr’s Controller Interface unit to the Controller’s Flow Meter input. Once programmed, the Controller Interface unit will communicate reliably, over any terrain, using non-line-of-site radio signals, with Aquaterr’s FM/MV-MA, Flow Meter Monitor/Master Valve Actuator unit.

The Monitor/Actuator unit is contained in a 6 inches high jumbo valve box and cover, and is installed 3 inches above the terrain. The operating components are safely concealed in water tight enclosures, looking like a standard valve box, with a cover.

This product qualifies for water conservation rebates, and can provide significant savings based on accurate and efficient use of water for irrigation.

Aquaterr’s wireless Monitoring and Control system does not require radio licensing. Several systems can operate in close proximity, without interfering with each other.



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Flow Meter Monitor/Master Valve Actuator
Flow Meter/Master Valve-Controller Interface

Specifications

	FM/MV - Field Unit	FM/MV - Local Unit
Operating voltage	3VDC	100/240 VAC@50/60 Hz
Battery type	8 Alkaline D Cells or 4 Lithium "D" Cells	n/a
Transmitter Power	4 Watts@50 Ohms	4 Watts@50 Ohms
Antenna Type	Internal, self contained or Omni-directional 4 foot (1.2 m) long	Omni-directional 4 foot (1.2 m) long
Actuating Voltage	n/a	3 to 30 VAC or VDC
Flow Sensor Type	Mechanical, 2 wire, or Electronic	n/a
Input Frequency	0.1 to 400 Hz	n/a
Pulse Output	n/a	Isolated solid state switch, with 5mS pulse output width, tracking the Flow Meter sensor output
Flow Rate Update	Real time, on flow change	Real time, on flow change
Range, Flow Meter to Controller	1/2 mile (0.8 km) with internal antenna. 1 mile (1.6 km) using external 4 foot (1.2 m) antenna	Same as Fiel Unit
Output Operation	9-12 VDC latching solenoid	n/a
Manual Actuate	Programmable	n/a
Fail Safe Shutdown	Programmable	n/a
Unit Identification	Programmable	Programmable
Operating Temp.	-10°C to 65°C	-10°C to 65°C
Enclosure	Submersible	Nema 4X weatherproof
Size	13 x 20 x 6 inches 33 x 50.8 x 15.2 cm	9.5 x 7.5 x 4.9 inches 24.1 x 19 x 12.4 cm
Weight	5 lbs, (2.27 kg)	6.6 lbs, (3 kg)
Installation	3 inches, (7.6 cm) above grade	Within 3 feet (91 cm) or Irrigation Controller
Warranty	One Year	One Year

The Aquaterr FM/MV system is designed to monitor flow meter sensors and control master valves remotely, using a non-line-of-site communication link from the field unit to a smart irrigation controller, located half a mile away from the flow meter and the master valve. The field unit has a self-contained antenna, and is installed just 3 inches above grade.

An optional external antenna is available for an extended one-mile range. The unit is battery powered using ordinary alkaline D cells that need to be replaced every 2 years. The system provides flow meter pulses to the controller, and provides wireless master valve control from the controller.

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