

SECOSYS Budget Compliant Water Management

Empowering the water consumer to conserve



SECOSYS Budget Compliant Water Management System

- Manages water consumption to meet consumer or water agency created targets.
- Controls all water use types to meet target budgets for each.
- Provides real-time water use feedback to consumers so that water conserving efforts are sustained.



In-home water



Irrigation



Pools



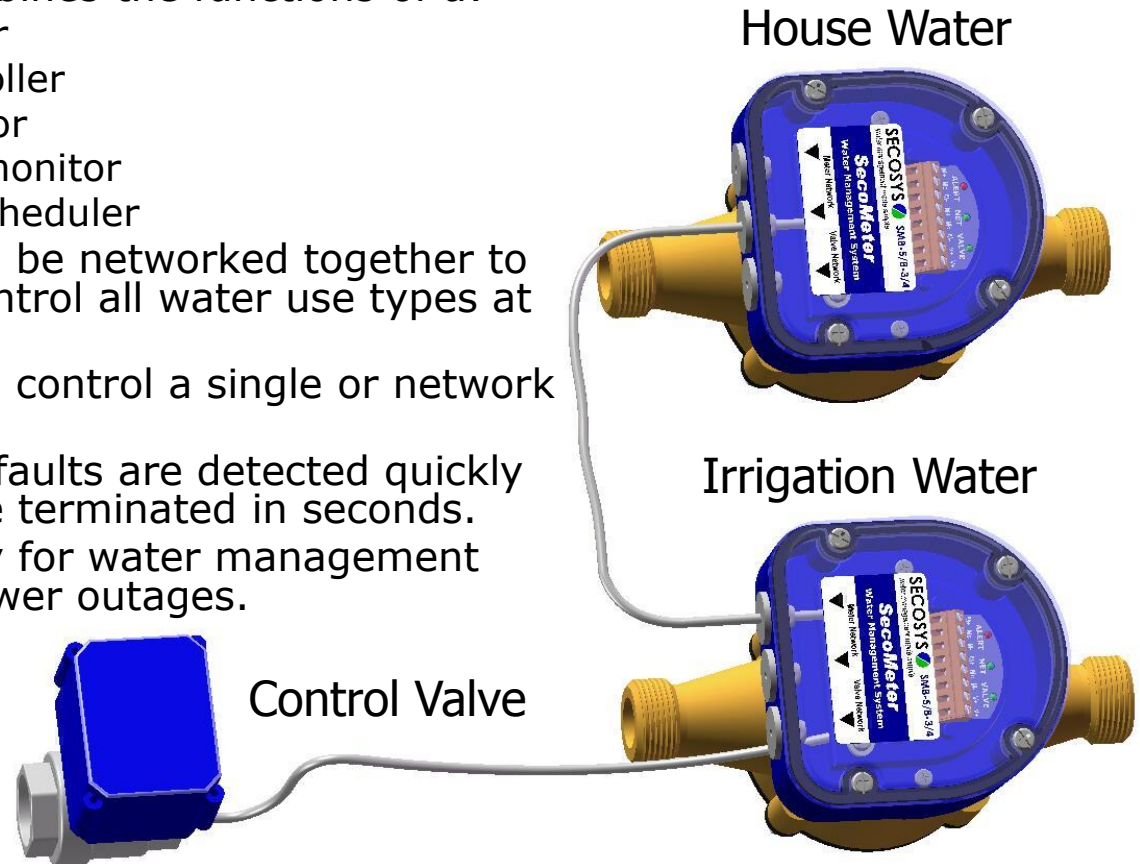
System Components

- **SecoMeter** – High intelligence water meter that manages water use and communicates with other SecoMeters over a network.
- **iDrop** – Docking station for a variety of water management devices that access the SecoMeter network.
- **Reflect** - Display that reports water use in real-time and allows consumers to manage water consumption.
- **Online Services** - Personal water management websites.



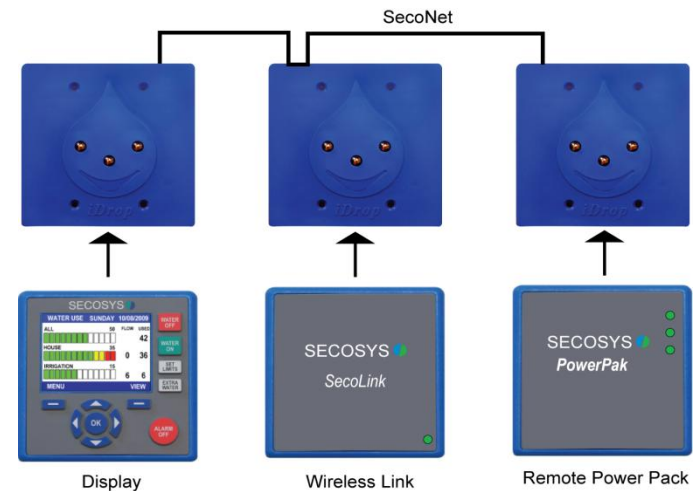
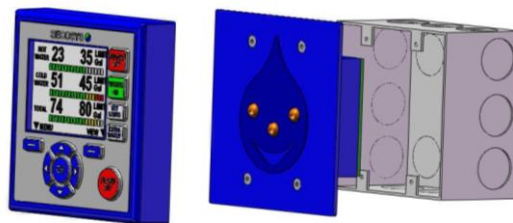
SecoMeter Water Meters - Intelligence

- SecoMeter combines the functions of a:
 - Water meter
 - Valve controller
 - Leak detector
 - Water use monitor
 - Irrigation scheduler
- SecoMeters can be networked together to monitor and control all water use types at a property.
- SecoMeters can control a single or network of valves.
- Water delivery faults are detected quickly and flow can be terminated in seconds.
- Internal battery for water management even during power outages.



iDrop Docking Stations - Flexibility

- iDrops are docking stations that allow water management devices access to the SecoMeter Network.
- iDrop docking devices will include displays, wireless modules, motion detectors, and other devices.
- iDrops install into standard electrical junction boxes allowing ease of installation into existing construction or outdoor locations.



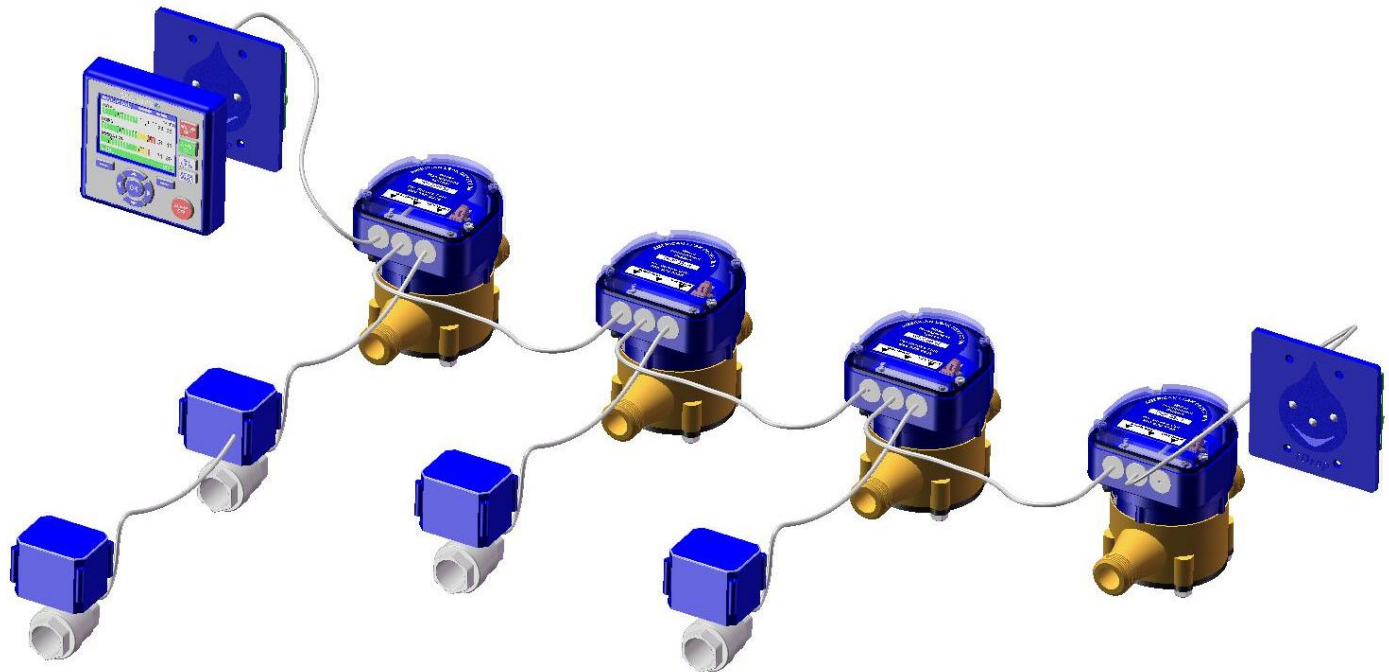
Reflect Display – Awareness

- Allows consumers to monitor and control both indoor and outdoor water use.
- Provides audible and visual alarms when leaks are detected or water use limits are exceeded.
- Displays water flow rate and cumulative water use information for all water systems allowing consumers to understand the magnitude of every water use event.
- Allows manual on/off control of any valve connected to the water management system.
- Continually informs the consumer of water use behavior and their success in reaching target budgets.



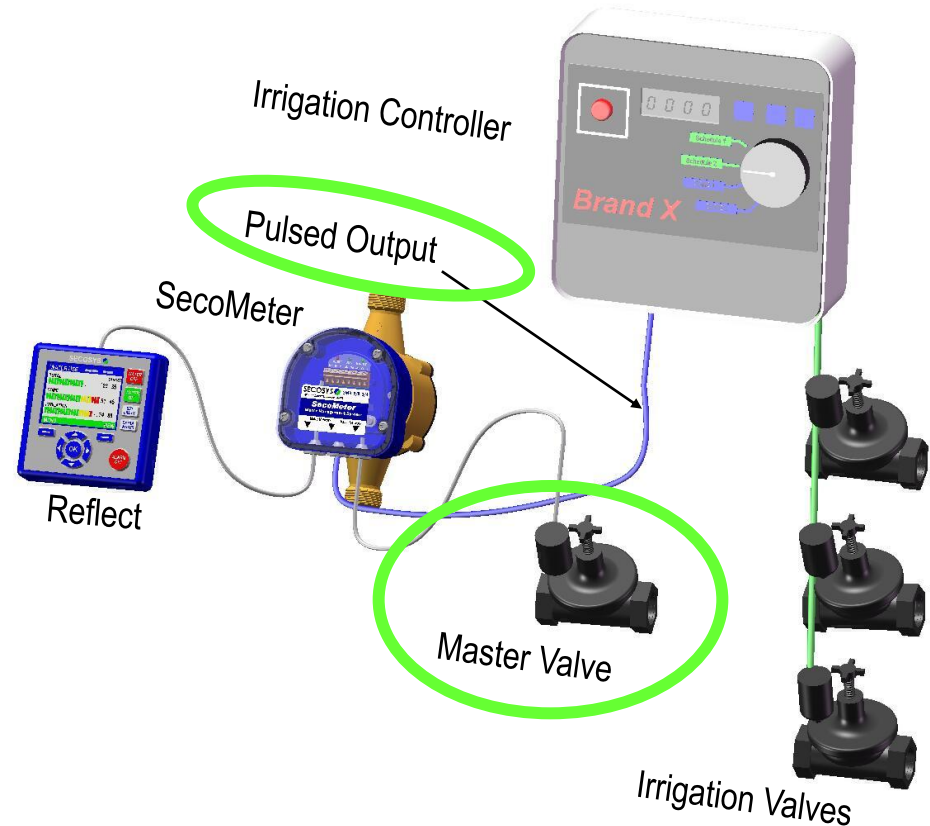
System Scalability

- SecoMeters can operate standalone to monitor water flow.
- Valves can be added to control flow based on set limits.
- iDrops provide access to the SecoMeter network.
- Reflect displays and other devices dock to iDrops.
- The system is easily expanded to manage all water uses.



Managing a Typical Irrigation Controller

- A SecoMeter can manage any irrigation system to insure correct water delivery: low flow, high flow, quantity.
- A master valve controlled by the SecoMeter can terminate water flow if a problem is detected.
- A pulsed output from the SecoMeter can be used by smart irrigation controllers to ensure flow integrity.





Remote Water Management Services

- Remote On/Off of any connected valve.
- Email alerts to water related problems
- Reports for personal water consumption and comparisons with other consumers.
- Geographical (map) user interface allows water management of total communities or large complexes.
- Data can be shared with water agencies, support services, and other need-to-know parties.



System Benefits

- Can be scaled to any size building and surrounding grounds.
- Water management is budget driven allowing consumers to meet consumption targets.
- Adherence to budgets produces predictability that helps water agencies manage supplies.
- Early leak detection and automatic flow termination reduces water loss and property damages.
- Manages water even during extended power outages.
- Allows consumers to use water in ways that suit their lifestyles while still meeting budget targets.
- Possibility to exempt Budget Compliant consumers from water level alert restrictions.



How is Budget Compliance Ensured?

- The system uses standard water meters to provide a self-auditing performance-based conservation.
- Water use information is available online to water agencies, repair services, landscape managers, and others to ensure water systems integrity is maintained.
- Water loss from leaks and consumer mistakes is virtually eliminated.
- Consumers are continually aware of water use habits.