100C LTE-M REMOTE SMART VALVE

The SETflow™ 100C provides water utilities with a low-cost and secure way of managing customer disconnects and reconnects that traditionally require on-site visits. This helps to lower utility operational costs, reduce on-site worker safety concerns, and improve revenue stability.

Turning water services on or off for new or delinquent customers is a time consuming process for field staff which takes resources away from urgent maintenance projects and adds costs to water operations. By implementing remote shut-off valves over existing cellular networks, utility staff reduce truck rolls, decrease unauthorized water consumption, and improve revenue collection. SET is the only technology provider in the water utility industry to offer a meter-neutral shut-off valve that may be selectively deployed at remote or high-turnover accounts.

SMART VALVE FEATURES

- The 100C Smart Valve utilizes a durable chrome plated ball valve shutoff system.
- The lithium battery provides up to 15 years of remote valve control and is contained within a potted solution, providing IP68 protection from water intrusion.
- The minimal mechanical functions of the SETflow Smart Valve allows for quick installation by adding only 2 inches to standard lay lengths.
- The 100C Remote Smart Valve is offered in sizes ranging from 1/2 inch up to 2 inches to meet a variety of residential, commercial, and industrial applications.
- Valve positions include open, closed and reduced flow and may be controlled remotely from the SETflow MDMS.
- The valve may also be configured for full meter reading and data transmission capabilities, eliminating the need for a discreet endpoint.
UTILITY BENEFITS

In addition to freeing field staff time and driving down operational costs, remote controlled shut-off valves create the opportunity to offer pre-paid water services that automatically shut off when a customer has used up their allocation of purchased water.

This allows for increased flexibility on how customers purchase water services, helps manage unauthorized use in areas of frequent turnover (college towns for example), and allows utility staff to focus on more urgent, higher priority maintenance activities.

CUSTOMER BENEFITS

End-users can remotely schedule water service shut-off when they will be traveling or on vacation. This avoids unauthorized water use or accidental leaks when no one is available to monitor usage. Alternatively, customers can remotely enable water services for winter vacation homes to avoid pipe freezing or automatically shut-off water if pipes inadvertently burst.

This not only helps protect property from costly water damage, but it also increases customer satisfaction of their water services. In the event of a shut-off due to delinquent payment, customers can have service quickly reinstated after making their account current. Customers may also receive a text communication notifying them that water service is slated to resume and to turn off any open faucets or valves in their homes to avoid flooding events.

TECHNICAL SPECIFICATIONS

<table>
<thead>
<tr>
<th>Communication Type</th>
<th>Two-Way LTE-M LPWA Cellular, WiFi, and Bluetooth 5.0</th>
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<tbody>
<tr>
<td>Firmware Updates</td>
<td>All endpoints can be updated from the SETflow MDMS or Field Mobile application.</td>
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<tr>
<td>Valve Operations</td>
<td>Valve positions include open, closed, and reduced flow (&lt;1 gpm) and may be controlled remotely through the SETflow MDMS.</td>
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<td>Battery Monitor</td>
<td>Remaining battery life is expressed as a percentage of total remaining battery life within the SETflow MDMS.</td>
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<tr>
<td>Data Security</td>
<td>Remote smart valve transmissions are encrypted using AES 256.</td>
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<tr>
<td>Dimensions</td>
<td>5.5 in. (H), 1.75 in. top diameter, 2.75 in. bottom diameter</td>
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</tbody>
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| Cellular Network Providers | US Territories - Verizon / AT&T  
Bahamas – Aliv / BTC  
Providenciales – Digicel  
Mexico – Claro  
UAE - Orange |
| Battery            | Non-replaceable D-Cell Lithium thionyl chloride |
| Operating Temperature | -20° to 60° C / -40° to 140°F |

License Requirements: All SETflow™ Remote Smart Valves comply with Part 15, Part 22, Part 24, and Part 27 of the FCC Rules. No license is required by the utility to operate the SETflow™ endpoints or management system.