FENIX

F235W LTE-M CELLULAR AMI REMOTE SMART VALVE

The F235W Remote Smart Valve features an extended antenna for optimum connectivity and provides water utilities with a low-cost, secure way of managing customer disconnects and reconnects without an on-site visit. This lowers utility operational costs, reduces on-site worker safety concerns, and improves revenue stability by decreasing unauthorized water consumption and providing an effective means for revenue collection. FENIX is the only technology provider in the water utility industry to offer a meter-neutral remote shutoff valve that can be selectively deployed at remote or high-turnover accounts.

VALUE BEYOND THE OBVIOUS

The F235W Remote Smart Valves reduces staff field time and drives operational costs down by reducing the number of truck rolls required to turn on/shut off water, the use of the F235W valves also delivers increased employee safety.

Safety from physical risks like car accidents and location hazards (aggressive animals, environmental factors, etc.) are easily identified. The less discussed hazard to employees is the emotional toll of engaging with residents during shut offs. Encounters can be fraught with fear, anxiety, grief, rage, or all of the above. By utilizing a remote smart valve, the utility provides proactive protection to employees *and* residents.

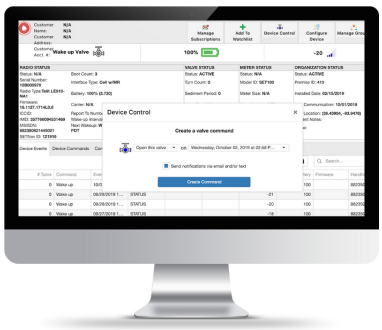
The F235W valve solution increases control over the collection process for the utility. Proactive notices (text/email communications) can be sent from the OMNIA Head End System to help prevent shut off. For those that still require shut offs, disconnect command times can be staggered so as not to overwhelm the utility's customer service division when residents call to have their service restored. The option of the partial flow creates a path to meet reduced provision if desired for high-risk medical need residents, or humanitarian requirements.

Finally, the valves help 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.

ADDITIONAL BENEFITS

- Decrease unauthorized consumption
- Versatile: Valve is meter-neutral
- Open, closed, and partial flow
- Valve contains internal cellular endpoints
- Unique closed command wake-up boost expedites reconnection
- Batch processing: Program Multiple valves at one time
- Controlled remotely from the OMNIA Head End System (HES)

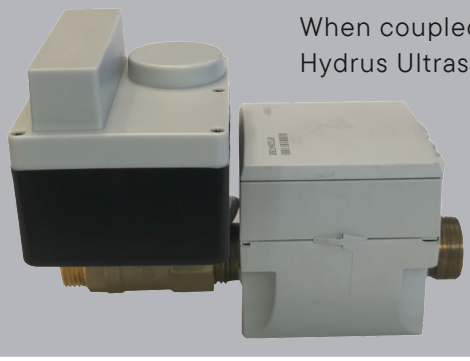
Designed for more than just on/off, the valve control in the OMNIA Software dashboard facilitates customer engagement via multiple communication methods regarding scheduled maintenance, outages, and more.



OMNIA Remote Smart Valve Control Screen

F235W REMOTE SMART VALVE FEATURES

Meter neutral, the FENIX Remote Smart Valve can be retrofitted to existing meters or installed with new meters - even within the same system.



When coupled with the 5" Diehl Hydrus Ultrasonic Meter for a 3/4" line, the lay length equals the 7.5" standard meter box lay length.

Sizes ranging from 1/2 inch up to 2 inches to meet a variety of residential, commercial, and industrial applications. Only adds 2.5" to standard lay lengths.

Direct meter reading and data transmission - eliminates the need for a separate endpoint.

Durable chrome plated ball valve shutoff system.

Meter-neutral and can be utilized with multiple meter brands within the same system.

Features an extended antenna that accommodates both pit and non-pit settings.

Lower Costs/Increased Efficiency: Less Truck Rolls

TECHNICAL SPECIFICATIONS

Communication Type	Two-way LTE-M Cellular and Bluetooth 5.0 included standard on every endpoint.
Extended Antenna	Standard with each valve, mounts through the lid for pit settings.
Reading Interval	Default configuration for stated battery life is 1 read per hour. All valves are remotely configurable from the OMNIA software for more frequent reads.
Reliable Open/Close	Valve open and close operation confirmed independently with solid state position sensors ensuring position is correct. Manual tamper can be detected by confirming the valve position. Battery and valve health automatically confirmed at the valve level before valve close operation is initiated to avoid valves getting stuck in closed position.
Firmware Updates	All endpoints are updated over the air (OTA) by the FENIX team and require no action on the part of the utility other than advance approval. Firmware updates are included with the standard purchae of endpoints with no additional fees.
Leak Detection	Valves can detect leaks via configurable thresholds in the included OMNIA software.
Dimensions	Enclosure only: 3.3" in. (H), 3.4" (L), 4.4" (W); With 3/4" Brass - 5.5" (H), 2.5" (L), 4.4" (W)
Valve Operations	Valve positions include open, closed, and reduced flow, controlled remotely through the OMNIA dashboard. Quality tested mechanical valve with low torque of operations.
Operating Temperature	-30° to 60° C / -22° to 140°F
Operating Pressure	220 psi (max)
Environmental	IP 68 Rating, NEMA 4 Enclosure
Battery	Non-replaceable D-Cell Lithium thionyl chloride
Battery Monitor	Battery status and supercap condition expressed as a percentage of total battery life in the OMNIA dashboard.
Data Security	Remote smart valve transmissions are encrypted using AES 256.
Data Logging	Valves contain an internal endpoint that stores 30 days of hourly meter reads with a first in/first out data management strategy.

All FENIX Remote Smart Valves comply with Part 15, Part 22, Part 24, and Part 27 of the FCC Rules. No license required by the utility to operate devices.

FOR MORE INFORMATION CONTACT:

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