FENIX

F4 AMI Endpoints

Clean Renewable Energy

Fenix's cellular endpoints harness solar power to increase system life expectancy. This increases the return on investment for the utility while lowering battery end-of-life issues and the footprint of recycling lithium batteries.

Cellular Benefits

Two-way, multi-carrier LTE-M cellular connectivity negates the need for the construction and maintenance of traditional RF networks. The utilization of a secure and redundant existing cellular network infrastructure automatically becomes an extension of the utility's resources.

Advanced Software

The software architecture allows seamless integration with existing systems during a system transition so the utility can achieve a single view of data. This feature is especially helpful during a multi-year project. The software provides advanced functionality, user configurable alarms, alerts, and the ability to change settings remotely on the AMI water endpoints.

Meter Neutral Advantage

Meter Neutral endpoints offer the benefit of having multiple major meter brands (wired to any encoded output register) reporting into a single head end system. The FENIX solution fully accommodates retrofits and new installations.

Endpoint Features

- Multi-Carrier LTE-M Cellular
- Solar and Battery Power
- 120 Days Storage of Hourly Data
- Over-the-air Firmware
- Deployment Simplicity
- 3X Transmissions Per Day (with 1 Configurable)
- 100% Encoded Meter Compatibility
- Remotely Configurable
- Encrypted Data

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Technical Specifications

Communication Type	Two-way Multi-Carrier, Industry Standard LTE-M Cellular. 700MHz-1.9Ghz Licensed. Bluetooth 5.0 included standard on every endpoint
Power	3.6V Lithium Battery + HLC, Solar and patented Power Management Platform
Environmental	-30° to 65° C / -22° to 150°F, IP67
Connection Options	Nicor, Itron, Bare Wire
Transmissions	Default 3X per Day Weekday, 1 Configurable 1X per day Weekend
Installation	Wireless BLE 2.0 from any Android Device
Leak Detection	Endpoints can detect leaks via configurable thresholds in the OMNIA software
Reverse / Zero Flow Detection	Reverse and zero flow is detected on all endpoints connected to an encoded output meter. Where register values reverse or are zero, flags are transmitted via status output from the meter
Data Logging	Endpoints store up to 120 days of hourly meter reads
Data Security	Endpoint data is encrypted during transmission using AES 256
Theft or Cut Wire Detector	If wire is cut an alarm will be sent via the software notifying operational staff
Encoded Meter Compatibility: Meter Neutral	Diehl, Sensus, Neptune, Badger, Master Meter, Kamstrup, Honeywell, Zenner, RG3, Hersey, Mueller, Siemens

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

FOR MORE INFORMATION CONTACT:

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