

MOSAIC™ FIREFLY® for Water Meters



The MOSAIC FIREFLY represents a breakthrough in Water AMR technology. It is the first solution to deliver walk-by/mobile/mesh network reading options, full two-way communications and support for advanced AMI functionality in a single unit.

Deployment Flexibility

The Water FIREFLY (FF) installs in minutes on virtually ANY water meter and ensures the smoothest possible deployment by giving utilities the option of reading via walk-by, mobile or mesh network collection platforms. Self-configuration routines automatically establish communications with the meter and neighboring FFs in the network (in mesh network mode). Once installed, FFs collect, store and transmit readings, interval data, and user-defined alerts. They also receive requests and firmware updates that enhance functional capabilities, all via two-way RF.

Install on virtually any encoder, pulse or direct-read meter

Read via walk-by, mobile or mesh network

Collect usage profile data

Monitor/enforce conservation

Access from any Web-based PC

Operate water AMI devices

Enhance capabilities remotely

AMI Functionality

The same FF model that read meters can also operate water AMI devices. The RSV (Remote Shutoff Valve) allows utilities to disconnect and reconnect water services without touching a wrench. Shutoff signals are sent and confirmations received with a MOSAIC mesh network or ROADRUNNER handheld; saving field service trips,

increasing worker safety and expediting delinquent account collections.

Permalog Leak Noise Loggers monitor mains for the distinct acoustic signatures produced by leaks. Read via a MOSAIC network or mobile collector, Permalogs are a utility's best ally in the fight against revenue-robbing leaks.

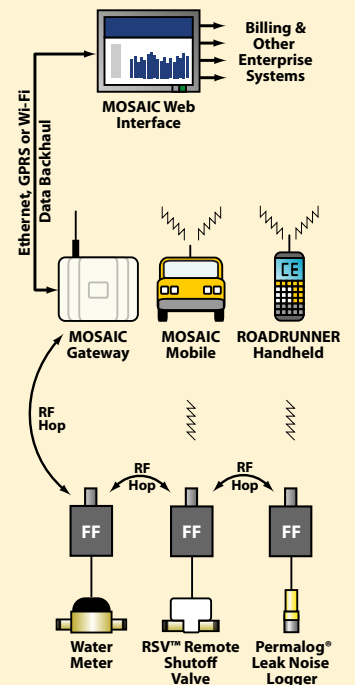
How it works

Water FIREFLYs (FFs) transmit reading, interval data & alerts and receive requests and firmware updates.

All FFs also act as repeaters. They "hop" data to and from neighboring FFs, automatically determining the most efficient path to the nearest MOSAIC Gateway.

Gateways capture and backhaul data to the office where it is used by billing and other enterprise systems.

FFs can also be read by a MOSAIC Mobile or ROADRUNNER Handheld as well as operate Permalog® Leak Noise Loggers and RSV™ Remote Shutoff Valves.



Specifications

Technical

Frequency: 902-928 MHz
FCC Licensing: Exempt under Part 15
Output Power: 250mW
Frequency Hopping Spread Spectrum
Lithium Battery
Operating Temperature: -40° - 185°F
Profile Data Capacity: 320 days @ 60 min.
Remotely-upgradeable Firmware

Collection Methods

Mesh Network
Mobile
Walk-by

Dimensions

Height (overall) – 6.25"
Width (wth flanges) – 5.125"
Depth – 3"

Compatibility

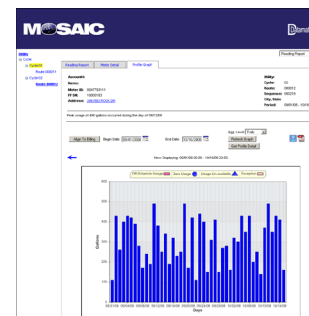
Actaris
AMCO/ABB/Kent
Badger
Butler
Hersey
Master Meter
Metron-Farnier
Neptune/Schlumberger
Performance
Sappel
Sensus/Invensys/Precision/Rockwell
Socam

Water AMI Device Support

Remote Shutoff Valve
Permalog Leak Noise Logger

Usage Profile Applications

Monitor/enforce conservation
Settle customer service issues
Right-size meters
Plan infrastructure improvements
Measure non-revenue water
Load studies



For more info,
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