



# 60 Series

## Water Endpoint

The 60 Series water endpoint is one of the water industries best performing and reliable AMR modules. The Series is available in two housing designs to support both water pit and remote installations (designated with an R) and is compatible with encoded (60W and 60W-R) and pulse-generating (60WP and 60WP-R) registers from industry-leading water meter manufacturers. Whether you're just starting your automated metering project or already using Itron Water ERT Modules, the 60 Series works with Itron's current meter reading and host-processing software. The 60 Series is compatible with your preferred water meters and is the best choice for your automated meter reading needs.

### Ease of Installation

The 60W and 60WP Series water endpoints include integral mounting adaptations for installing the endpoint below compatible meter pitlids using standard-dimension fiberglass, or by attaching it to plastic PVC pipe with common plastic cable ties. Both models can also be screw-fastened to flat surfaces or mounted through metal pit lids via a 1.75-inch hole by snapping on the optional pit lid adapter. Additionally, a shelfmount adapter is available for use with lids that contain a recessed cavity on the side under side of the pit lid. The compact shape and optional in-line register cable connector make installations to the water meter quick and easy.

The 60W-R and 60WP-R water endpoints are designed for remote mounting in situations requiring a greater distance from the meter than can be supported with the 60W or 60WP. Remote series endpoints are adaptable to both indoor and outdoor applications and offer direct mounting capability to several leading meter manufacturer's meter registers. Cable lengths up to 150 feet are supported without a reduction in battery life. Maximum cable length is 300 feet.

The 60W Series water endpoint requires no FCC license. No programming is required for the encoded model (60W and 60W-R). The pulser model (60WP and 60WP-R) can be programmed with the use of Endpoint-Link® or Endpoint-Link Pro with a FC200SR handheld.

### Superior Performance

The 60 Series water endpoint utilizes 50 radio channels randomly, selecting one channel for each data message. This multi-channel approach delivers improved reading performance over competing products by reducing the effect of interfering radio signals. Itron has also increased the 60 Series water endpoint's radio frequency (RF) output power and employed an advanced antenna to further improve meter reading performance.

### Reliability

The 60 Series water endpoint's circuit assembly and battery pack are fully encapsulated within a specially-formulated potting material that completely protects internal components from water,



**60W pulser**



**60W-R**

contaminants, corrosion, rough handling and temperature cycling. With its simple design, the 60 Series water endpoint uses substantially fewer components than most competing products, resulting in lower overall service costs. The advanced, integrated antenna operates well in a wide range of meter box installations. The design protects the 60W and 60WP endpoints from lawn mowers, vehicle traffic and other hazards.

### Lower Cost of Ownership

The 60 Series water endpoint's industry-leading battery life ensures your automated meter reading (AMR) investment will achieve substantially better financial returns than competing products with batteries that typically last only 10 or 12 years. Additionally, the 60 Series water endpoint's advancements in leak, reverse flow (60W or 60W-R only) and tamper detection translate into fewer field investigations and substantially lower expenditures for installation, meter reading, customer service and field service.

## SPECIFICATIONS

### Functional

- » Power source: Two "A" cell lithium batteries rated for an average life of 15 years on pulse-generating registers, 20 years on encoded registers
- » Maximum meter register pulse frequency: 3 Hertz
- » Operating temperatures: -40°F to +158°F (-40° C to +70°C)
- » Storage temperatures: -40°C to +75°C for maximum of 1,000 hours
- » Humidity limits: 0 to 100% (submersible)
- » Maximum register cable dimension: 150 feet with Itron-approved cable and splice connectors
- » Meter compatibility: Encoded and pulse-generating register water meters as documented in Itron Water ERT Module Compatibility List, PUB-0063-002

### Transmission Parameters

- » Data message: Multiple RF channel transmissions of meter register value, cut cable tamper, reverse-flow and system leak status messages broadcast every seven seconds
- » Transmitter frequencies: 910 – 920 MHz @ + 10 dBm (10 milliwatts)

### Approved Reading Devices

- » Fixed Network 2.0 Collection System
- » Drive-by system: Itron Mobile Collection System and Mobile Collector Lite
- » Walk-by system: Itron G5R, FC200R and FC200SR handheld computers
- » Minimum software versions: MV-RS v7.7 (v7.8.6 for FC200SR), FCS v1.6 (v1.8 for FC200SR), PremierPlus4 v3.2 & Integrator v5.2

### Approved Programming Devices

- » FC200SR with Endpoint-Link or Endpoint-Link Pro version 5.1 or higher software

## Dimensions

### 60W and 60WP

- » Height: 4.5 inches
- » Maximum diameter: 2.90 inches
- » Weight: Approx. 5.5 oz.
- » Endpoint cable length with in-line connector: 6 inches
- » Endpoint cable length without in-line connector: 5 feet or 6 inches (integral register mounting)
- » Register cables for use with in-line connector: 5 feet or 25 feet

### 60W-R and 60WP-R

- » Enclosure dimensions: 4.5 inches square by 1 .5 inches thick
- » Weight: 9.5 oz.
- » Wire length: Approx. 6"

## Mounting Options

### 60W and 60WP

- » Rod-mount using standard ½" fiberglass or reinforcing rod (re-bar)
- » Pit lid shelf-mount using snap on shelf mounting adapter
- » Wall-mount to suitable backing material with user supplied mounting screws
- » Through meter pit lids with 1.75" to 2" diameter holes (up to 2.5" thick) using the optional snap-adapter or passive radiator antenna and security clamp

### 60W-R and 60WP-R

- » Wall-mount to any surface material including metal
- » Pipe-mounting to pipe diameters up to 2 ¼"
- » Direct-register-mounting (on select meter registers)

## Regulatory and Standards

- » FCC Part 15.247
- » Industry Canada #210, Section 6.2.2(o)



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