



Knowledge to Shape Your Future

functionality profile

200W Water Endpoint

The 200W water endpoint for indoor water meters is a data collection device that has been designed specifically for use with Itron's Water Fixed Network solution. The high-powered 200W Water Endpoint delivers 1 watt of RF power, enabling utilities to reduce the number of network concentrators required to achieve reliable coverage, thereby reducing the cost of network deployment and ownership.

A single 200W supports protocols for a variety of leading water meter manufacturer's registers, including AMCO, Badger, Hersey, Neptune and Sensus, thus providing the utility with a solution for both new and existing installations. Also, the flexibility of the 200W's design allows for fast field upgrades to accommodate new meter register protocols as they are approved.

The 200W endpoint also provides water utilities with two new powerful features — Data logging and Leak Detection. Data logging allows for storage and retrieval of 35 days of hourly consumption information. The data logging interval can be programmed to the duration that best meets the utilities needs. For example, a utility can set the interval to 15 minutes and obtain eight days of granular usage data. This information can be used for sizing meters correctly to maximize revenue at accounts where under-registration and loss of revenue may be occurring. That data can also be used to optimize capital investments and enable more effective conservation programs.

Leak Detection is another value-added feature that can provide cost savings and revenue assurance for the utility. A special endpoint algorithm for the 200W allows the utility to accurately assess the magnitude of potential leaks. The leak detection feature provides minimum interval consumption over a programmable time period to reveal potential leaks downstream of the meter. Every time the endpoint transmits a reading, it also transmits a leak detection value, providing continual status reports regarding leaks and potential leaks.

To minimize the possibility of theft, the 200W features both tilt and cut-cable tamper reporting, as well as security seals to alert utilities to physical tampering. Tilt tamper is reported when the endpoint is removed or rotated. Cut cable is reported when the cable has been cut or disconnected from the register or the endpoint. Also, Itron has added a new diagnostic flag to the module's transmitted message to alert the utility of a register or 200W communication error. When used in concert with Itron's Knowledge Application software, this capability enables the utility to intelligently filter, analyze and prioritize tamper flags so that investigative resources can be directed to those accounts where the likelihood of tamper and theft of services is high.

Powered by a long-life single D-cell lithium battery, the 200W endpoint delivers an expected battery life of 20 years¹ when operated within a fixed network environment. The long battery life, coupled with the endpoint design life, provides utilities with the most competitive lifecycle costing available with any fixed network system on the market.

The 200W endpoint offers the optional convenience by enabling two registers to be connected to the same endpoint—thus reducing overall system costs. For added installation flexibility, the 200W can be cable mounted as far as 500 feet from the meter.

200W Water Endpoint

for Water Fixed Network 2.5



specifications

Functional

- > Power Source: 1 D-cell lithium battery
- > Programming Parameters:
 - Transmit Bubble-Up Interval
 - Transmit & Receive Frequency
 - Receive Bubble-Up Interval
 - Meter Register Type
 - Data Logging Interval
 - Register Cable Interface—supports both 3-wire and Badger 2-wire
 - Channel Frequency
 - Endpoint Password
 - Leak Detection Parameters
 - Initial Consumption Reading
 - Location ID/Utility Identifier
- > Tamper Detection: Cut cable, tilt, and reprogramming attempts
- > Operating Temperatures: -40° F to + 158° F (-40° C to + 70° C)
- > Operating Humidity: 0 to 95% relative humidity (RH)
- > Product Identification: Numeric and bar-coded serial number
- > Installation Options: Remote mount—indoor or outdoor above ground

Approved Reading Devices

- > Itron's Fixed Network Cell Control Unit

Meter Compatibility

- > See Water Endpoint Meter Compatibility Guide (PUB-0063-002)

Regulatory & Standards

- > FCC Compliant: Part 90 verified
- > Industry Canada Approved: RSS142 certified IC: 864D-1430W

Operational

- > Transmit & Receive Frequency: 1427 MHz to 1432 MHz
- > Modulation: Frequency Modulated (FM)

Related Documents

- > Water Endpoint Ordering Guide (PUB-0063-001)
- > 200W Endpoint Installation Manual (PUB-0217-001)

¹ Battery life will be affected by various operating conditions. The expected 20-year period stated in this document is based on operating parameters as programmed at the time of manufacture for a single meter register connection.

profile

Itron Inc.

Itron is a leading technology provider and critical source of knowledge to the global energy and water industries. Nearly 3,000 utilities worldwide rely on Itron technology to deliver the knowledge they require to optimize the delivery and use of energy and water. Itron delivers value to its clients by providing industry-leading solutions for meter data collection, energy information management, demand response, load forecasting, analysis and consulting services, transmission and distribution system design and optimization, web-based workforce automation, C&I customer care, as well as enterprise and residential energy management.

To know more, start here: www.itron.com



Itron Inc.

Corporate Headquarters

2818 North Sullivan Road
Spokane, Washington, U.S.A. 99216
Phone: 1.800.635.5461
Fax: 1.509.891.3355
www.itron.com