Itron

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Water Solutions

80W-i Endpoint Installation Guide

Identification
80W-i Endpoint Installation Guide
02/13/2009 TDC-0830-001

Suggestions
If you have comments or suggestions on how we may improve this documentation, send them to TechnicalCommunicationsManager@itron.com
If you have questions or comments about the software or hardware product, contact Itron Technical Support:

Contact

- Internet: www.itron.com
- E-mail: support@itron.com
- Phone: 1 800 635 8725

Patent Notice
US and foreign patents pending.

Compliance Statements

This device complies with Part 15 of the FCC Rules. Operation of this device is subject to the following two conditions:

- This device may not cause harmful interference.
- This device must accept any interference that may cause undesirable operation.

This device must be permanently mounted such that it retains a distance of 20 centimeters (7.9 inches) from all persons in order to comply with FCC RF exposure levels.

This equipment has been tested and found to comply with the limits, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. Operation is subject to the following conditions:
• This device may not cause interference.
• This device must accept any interference that may cause undesired operation of the device.

This equipment complies with policies RSS-210 and RSS-GEN of the Industry Canada rules. Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Transportation Classification
The Federal Aviation Administration prohibits operating transmitters and receivers on all commercial aircraft.
When powered, endpoints are considered operating transmitters and receivers and cannot be shipped by air.
All product returns must be shipped by ground transportation to Itron.

Repairs and Modifications
WARNING! Attempts to repair this device by unauthorized personnel may subject the person to shock hazard if removal of protective covers is attempted. Unauthorized repair may void the warranty and/or maintenance contract with your company.

WARNING! This unit cannot be modified and is not repairable. Modification of this device could cause non-compliance with FCC rules. Attempts to modify this device will void the warranty.

Lithium Batteries
WARNING! Follow these procedures to avoid injury to yourself or others:
The lithium battery may cause a fire or chemical burn if it is not disposed of properly.
Do not recharge, disassemble, heat, or incinerate the lithium battery.
Keep the lithium battery away from children.

Support
If you have questions or comments about the operation or installation of this endpoint, please contact the 80W-i Itron support team.

Websites
http://www.itron.com
http://support.itron.com

Document Convention

The following documentation convention is used:

WARNING! This type of note is used to warn of potential physical harm to the user or hardware. It is critical that you pay strict attention to WARNING notes, read the information carefully, and heed the advice, instructions.

Contents

CHAPTER 1

80W-i Endpoint

The Itron 80W-i combines Itron Cyble and water endpoint technologies to create a powerful AMR module. 80W-i endpoints are bubble-up meter transceivers operating in the 900 MHz unlicensed radio frequency band. Utilizing an integral mounting design, the 80W-i is attached directly to the Itron Flostar, Multimag, or Woltex water meter (with the three-tab housing) using a single mounting screw. This streamlined mounting method eliminates wire connections providing a trouble-free installation.

The 80W-i endpoint transmits a consumption message at two power levels giving utilities the option to migrate from an Itron ChoiceConnect drive-by solution (standard power) to a ChoiceConnect fixed network solution (high power) without changing the meter or endpoint. When combined with the superior low flow metrology of Itron single jet meters, 80W-i endpoints deliver accurate consumption data over a wide range of flow rates.

Product Highlights

The 80W-i features:

- A "no-wire" design
- Multiple power output
- Migration to Fixed Network without meter or endpoint replacement
- Programmable dial resolution (down to 1/10th gallon)
- Leak detection
- Tamper detection
- Reverse flow detection

80W-i Ordering Information

Description	Part Number
80W-i Endpoint (packaged 24 per box) Box includes: Size T15 torque screws (packaged 25 per kit) Blue magnetic tamper seals (packaged 25 per kit)	ERW-0776-001

Related Documents

Document	Part Number
Endpoint Link Installation Guide	TDC-0758-002
Endpoint Link Pro Installation Guide	TDC-0786-002
Endpoint Link Configuration Guide	TDC-0670-007
Endpoint Link Programming Guide V5.3 (or later)	TDC-0744-003
Endpoint Link Configuration Checklist	TDC-0671-010
Endpoint Link Checklist Guide	TDC-0672-009

CHAPTER 2

Installing the 80W-i

The 80W-i can be installed and programmed (see Programming the 80W-i on page 7.) before or after Itron meter installation. Verify the Flostar, Multimag, or Woltex meter register housing is the three-tab design. Screws and tamper seals to attach the endpoints are included with each 80W-i.

Required Tools and Hardware

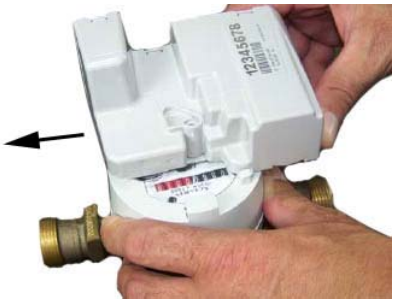
- Flostar, Multimag, or Woltex meter with three-tab housing
- Itron 80W-i Endpoint
- Blue magnetic tamper seal
- Stainless steel torx screw
- Size T15 torx screwdriver
- Small regular-tip screwdriver

Attaching the 80W-i Endpoint to an Itron Water Meter

Warning Field retrofit applications require a clean register. Use a damp towel to clean the register cover and meter lens including the mounting tabs, screw plug, and lens covering of the Cyble target.

1. Using a small, standard tip screwdriver, unscrew the hole-protector on the register cover.

2. Align the register housing mounting tabs with the 80W-i slots and carefully slide the endpoint onto the meter as shown. When correctly installed, the endpoint will lie flat on the register surface.



A. Correctly mounted 80W-I B. Incorrectly mounted 80W-i

Warning Carefully align the register housing mounting tabs and the 80W-i slots before sliding the 80W-i into its mounted position. Use care when sliding the 80W-i into position to ensure a snug fit (as shown). Verify the 80W-i fits securely over the register surface without a gap. When attaching the 80W-i module in a pit box, confirm the endpoint is properly mated by feeling under the endpoint with your fingertips to verify all three mounting tabs are seated in the appropriate slots and there is not a gap between the endpoint and register. After you have confirmed a snug fit between the endpoint and register, secure the endpoint to the register housing with the supplied mounting screw.

3. Insert the torx mounting screw and hand tighten to a firm resistance. Do not over-tighten.

Warning Do not use an electric screwdriver. A power tool could over-tighten the screw and damage the register's plastic housing.

4. Insert a blue tamper seal into the matching location over the screw. Ensure the seal is firmly seated around its perimeter.

Warning Applying the blue tamper seal places the endpoint into programming mode for 15 minutes. If the seal is removed after programming, the endpoint will sense the removal and advance the 'cut-cable' tamper value.

CHAPTER 3

Programming the 80W-i

Required Programming Hardware and Software

- Itron FC200SR loaded with Endpoint Link Software, version 5.3.1 or higher

- 80W-i Endpoint Configuration File loaded in the FC200SR Handheld. (The configuration file is unique for each utility.)

The 80W-i activates for programming when the blue tamper seal is installed. Tamper seal installation initializes a 15-minute programming period when the FC200SR is used to program meter parameters from the Endpoint Configuration File, the beginning meter index value, and desired resolution.

After the 15-minute programming period expires, the 80W-i enters a normal operating mode unless Quiet Mode was enabled in the configuration file. Quiet Mode places the endpoint in a hibernation state until consumption is detected. When consumption is detected, the 80W-i will switch to its normal operating state. Re-programming the 80W-i requires placement of the Itron pen magnet (MLD-0175-001) over the tamper seal for approximately 4 seconds. Remove the pen magnet after the wait-time elapses.

To request an Endpoint Configuration File, contact support@itron.com. Within two weeks, you will receive log-on information and download instructions for your new Endpoint Configuration File from our secure Itron website.

If you need assistance loading the handheld with your Endpoint Configuration File, contact Itron 80W-i Support at 1-800-635-8725.

The Endpoint Link or Endpoint Link Pro Programming Guide (V5.3 or later) can assist users with Endpoint Link Software navigation or programming options for the 80W-i.