

OpenWay®

2.4ZR Range Extender

Introduction

Itron's battery-powered 2.4ZR OpenWay® Range Extender supports communication between an OpenWay CENTRON® electric meter and either direct or remote mounted 2.4GZ OpenWay gas modules. Even if both the electric meter and the gas module are working properly, there may be radio frequency (RF) signal constraints preventing communication between the two. RF signal constraints include:

- > physical barriers
- > foliage
- > walls
- > vehicles between the components
- > distance between electric meter and gas module may be too great

Installing a range extender between the electric meter and the gas module extends RF range enabling data flow.

Note *The 2.4ZR OpenWay Range Extender is not a signal amplifier.*

The range extender is small and easy to install. A polycarbonate weather-resistant case encloses the electronic components, radio antenna, and A-cell batteries. The batteries are not replaceable.

Configure the 2.4ZR OpenWay Range Extender with the same Itron tools used to program the 2.4GZ OpenWay gas module. Successful mitigation and installation create a reliable signal path between the gas module and the electric meter.

Features

- > Supports up to 8 - 2.4GZ OpenWay gas modules through one range extender
- > Supports both Itron Private and Smart Energy Profiles
- > Upgradeable via firmware download
- > Supports firmware download to the 2.4GZ OpenWay gas module
- > Indicates signal strength between it and both 2.4GZ OpenWay gas module and CENTRON electric meter
- > Optional pipe mounting hardware, CFG-0005-003

Regulatory and Standards

Compliant to the following:

- > FCC 15.247, 15.205, 15.209, 1.1310 and 2.1091 or 2.1093
- > RSS-210 Issue 8 – 12/2010
- > RSS-Gen Issue 3 – 12/2010
- > UL Class I, Division 2, Groups C&D – 04/12/2007

Specifications

Functional

- > Power Source: Lithium battery pack
- > Battery Life: 20 years
- > Radio programming parameters: Bubble-up time, Bubble-up period, Security key
- > Output power: 16 dBm, (43 milliwatts)
- > Communications protocol: ZigBee Smart Energy 1.0
- > Frequency Band: 2.405 to 2.475 GHz ISM band
- > Tamper detection: Magnetic tamper
- > Operating temperature: -40° F to +158° F (-40° C to +70° C)
- > Operating humidity: Up to 95 % relative humidity, non-condensing
- > Product identification: Numeric and bar-coded serial number

Physical

- > Material of construction is gray polycarbonate with encapsulated electronics for protection against environmental hazards and tampering
- > Dimensions: 4.9" x 3.6" x 2.5"
- > Shipping:
 - Modules per Box: 20
 - Box Dimensions: 23.5" x 19.5" x 4.25"
 - Box Weight: 25.8 lbs/11.7 kg
 - Modules per Pallet: 880
 - Pallet Dimensions: 40" x 48" x 48"H
 - Pallet Weight: 1135 lbs/515 kg



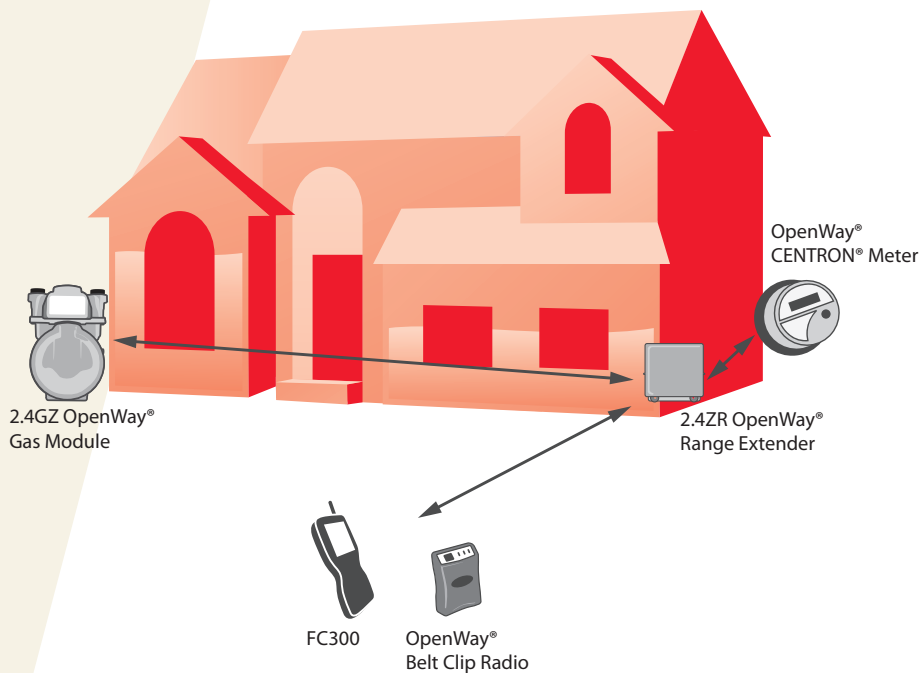
Additional Information

Programming

- > OpenWay Belt Clip Radio, and
- > FC300 with SRead with Field Deployment Manager version 1.1 or higher, or
- > FC200 (Bluetooth-enabled) with Field Deployment Manager version 1.1 or higher, or
- > Laptop (Bluetooth-enabled) with Field Deployment Manager version 1.1 or higher

Documentation

- > 2.4ZR OpenWay Range Extender Installation Guide (TDC-0832)
- > Field Deployment Manager Endpoint Tools Guide (TDC-0934)
- > Field Deployment Manager Endpoint Tools Configuration Guide (TDC-0935)
- > Field Deployment Manager Endpoint Checklist (TDC-0942)



About Itron Inc.

Itron Inc. is a leading technology provider to the global energy and water industries. Our company is the world's leading provider of intelligent metering, data collection and utility software solutions, with nearly 8,000 utilities worldwide relying on our technology to optimize the delivery and use of energy and water. Our products include electricity, gas, water and heat meters; data collection and communication systems, including automated meter reading (AMR) and advanced metering infrastructure (AMI); meter data management and related software applications; as well as project management, installation, and consulting services. To know more, start here: www.itron.com.



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