

MCLite

Mobile Collector Lite

Overview

From small rural providers to larger utilities with a mix of rural and urban service areas, Itron's Mobile Collector Lite represents a more cost-effective and flexible solution for drive-by data collection of Itron ChoiceConnect™ wireless automated meter reading (AMR) solutions. Building on Itron's industry-leading mobile and handheld AMR technologies, MCLite is an innovative combination of mobile and handheld AMR that can handle mixed drive-by and walk-by routes for the ultimate in operational flexibility.

Powered by Itron SRead radio technology, the MCLite offers unparalleled drive-by meter reading performance alongside the ability to perform walk-by pickups for greater efficiencies. MCLite is small enough to fit in any vehicle and can be easily transferred between vehicles—eliminating the need for an automobile dedicated to meter reading.

Whether for electric, gas or water, from monthly consumption reads to the collection of interval data, the MCLite offers read performance, accuracy and ease-of-use, all in one cost-effective solution.

MCLite Features

- > Robust performance in a convenient and affordable package
- > Maximize meter reader productivity and safety
- > Exceptional meter reading performance in a small size
- > Simultaneous reading capability for multiple routes
- > Reads both “bubble-up” and “wake-up” endpoints
- > Out-of-route read collection to reduce special read visits
- > Compatible with MV-RS and FCS
- > Supports both Itron's FC300 & FC200 handheld computers
- > Support for all 100G and 100W datalogging activities

Functionality Profile

Itron's rugged, industry-leading FC300 and FC200 handheld computers are the key to MCLite's flexibility. Utilizing the compact in-vehicle dock and the colorful handheld touchscreen display, meter readers can view processed and unprocessed reads in real time.

The external SRead radio technology offers increased read sensitivity and simultaneously listens over 80 channels to improve route reading times and range. MCLite collects consumption and tamper data from water, gas and electric endpoints in either “bubble-up” or “wake-up” mode.

A single MCLite can collect reads from up to 10,000 meters on a single route, compared to the few hundred meters that can be read on the average handheld walking route. Meter readers can collect reads while driving at normal city driving speeds or they can remove the handheld from the in-vehicle dock to probe reads, collect manual meter reads or hard-to-read meters while reading the normal cycle route.

When using an FC300 or FC200 handheld equipped with an optional internal radio, meter readers can also program endpoints or do field investigations.

Advanced AMR for Gas and Water Metering

Gas and water utilities can utilize their MCLite in order to extract up to 40 days of hourly data from the 100G and 100W Datalogging ERT modules. This brings additional value to mobile customers by enabling them to extract, via RF, the following data during monthly meter reading.

- > Move in/move out reads for a specific date
- > Daily data for customer service and billing disputes
- > Monthly gas balancing reads
- > Hourly data to facilitate load studies and conservation programs
- > Data to support mid-cycle rate changes



Specifications

Operating Frequency

- > Transmitter: 952 to 956 MHz
- > Receiver operating frequency: 908–924 ISM Band
- > Output power: 6.5 Watts peak
- > Data integrity: Verified in every message

Functional

- > Power supply: 12V DC vehicle power supply
- > Power consumption: 5 Amps maximum
- > FCC compliance: Part 101

Mounting and Wiring Options

- > Wiring Options
 - Permanent – Permanent wiring includes a through the roof antenna base and a fuse block power cable
 - Portable – Portable wiring includes a magnetic mount antenna base and an accessory outlet power cable
- > Mounting Options
 - Includes all necessary hardware to secure Itron's FC200 or FC300 handheld computer in the vehicle (vehicle pedestal not included)

Environmental

- > Operating temperature:
 - 4°F to +122°F (-20°C to +50°C)
- > Storage temperature:
 - 40°F to +160°F (-40°C to +71°C)
- > Humidity limits: 5 to 95% non-condensing relative humidity

Endpoint Compatibility

- > All legacy Itron ERT® modules
- > 40GB gas ERT modules
- > 100G gas ERT modules
- > 60W water ERT modules
- > 80Wi water ERT modules
- > 100W water ERT modules
- > Itron CENTRON® with R300 modules
- > Itron CENTRON Polyphase with R300 modules
- > Itron SENTINEL® with R300 modules

Physical Dimensions

- > MCLite Radio: 13"W x 11.25"L X 2.75"H
- > FC200: 9.6"L x 4"W x 2.1"D
- > FC300: 9.94"L x 3.86"W x 2.79"D

Weight

- > MCLite Radio: 10 lbs
- > FC200: (base configuration):
 - 28 oz. (798 g) including batteries
- > FC300 (base configuration):
 - 31 oz (879g) including batteries

MCLite comes complete with MCLite Radio, mounting & wiring hardware and documentation.

Host Processing Software

MCLite is compatible with Itron's Field Collection System version 2.2 and higher, and MV-RS® version 7.7 and higher.

Datalogging Support

- > MV-RS
 - Datalogging support for MCLite is found in MV-RS® version 8.2 and higher.
- > Field Collection System (FCS)
 - Datalogging support for MCLite is found in FCS version 2.3 and higher.

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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