Itron

Knowledge to Shape Your Future

functionality profile

The portable Mobile Collection System is Itron's latest addition to its industry-leading portfolio of Mobile AMR solutions. The Mobile Collection System's combination of performance, portability and affordability represents a significant leap forward for utilities of all types and sizes endeavoring to maximize operational efficiency, reduce costs and provide superb customer service.

Simply put, never before has such robust meter reading performance been contained in such a convenient and cost-effective package.

The Mobile Collection System interrogates and receives information from ERT modules installed on gas, electric and water meters. The system includes: a transmitter to wake up the ERT module, receivers to manage incoming ERT module data transmissions, and a data acquisition computer to store meter reading data. It operates on software-selectable utility radio frequencies, and is capable of reading ERT modules operating in either "wake-up" or "bubble-up" mode.

A single Mobile Collection System reads an average of 10-12,000 meters in an eight-hour shift, and can read up to 16,000 meters per day, depending on meter density and system use. It can also read more than one route simultaneously.

The Mobile Collection System provides unparalleled mobile meter reading performance, yet it is small enough to fit in any vehicle and can be easily transferred between vehicles, eliminating the need for a dedicated vehicle for meter reading.

The durable Mobile Collection System is easy to use, featuring a user-friendly interface and touch-sensitive display, making training and operation a snap, and is completely compatible with Itron meter reading and host processing software.

Mobile Collection

specifications

Performance Specifications

> Operating Frequency:
  - Transmitter: 956 MHz MAS Band
  - Receiver: 915 MHz ISM Band
> Output power: 4 watts peak
> Data integrity: verified in every message

Functional Specifications

> Power supply: 12 V DC vehicle power supply
> Power consumption: 8A; transmitting mode
> FCC compliance: Part 101 and Part 15 Class B
> Removable laptop interface
> Drive: 20 GB hard drive on laptop and 64M CF nonvolatile backup
> Antenna: single, roof mount, omnidirectional
> Display: touch sensitive, color display, Windows 2000
> Hard wired to fuse block for power

Environmental

> Operating temperature: -4º to 122ºF (-20º to 50ºC)
> Storage temperature: -40º to 160ºF (-40º to 71ºC)
> Humidity limits: 5 to 95% non-condensing relative humidity

Physical Specifications

> Cabinet dimensions: 13" x 16.5" x 6"
> Weight: Mobile Collection System weight approximately 25 lbs
> The Mobile Collection System comes complete with system cabinet, laptop interface, all necessary cabling, mounting hardware, antenna and an instruction manual.

Host Processing Software

> The Mobile Collection System may be used with any of Itron's meter reading software applications, which are sold separately. They include:

- MV-RS: Itron's popular meter reading software integrates electronic, off-site and mobile AMR functionality into a single software applications
- Premierplus4: this client/server-based application uses industry-standard database networking software and offers unprecedented power and flexibility. Premierplus4 can operate and manage Itron's handheld and mobile technologies in a single software application
- Integrator: an IBM mainframe-based meter reading management system that can operate and mange Itron's handheld and mobile technologies. Integrator is flexible and expandable, allowing utilities to use metering equipment from more than one manufacturer.

RF Exposure

> Caution
  - To comply with FCC RF exposure requirements, a separation distance of at least 40 cm must be maintained between the antenna of this device and all persons.

Electromagnetic Compatibility

> Caution
  - Approved accessories only must be used with this equipment. In general, all cables must be high quality, shielded, correctly terminated and normally restricted to 2 meters length. The Mobile Collection System adaptor employs special provisions to avoid radio interference and should not be altered or substituted.
  - Unapproved modifications or operation beyond or in conflict with these instructions for use may void authorization by the authorities to operate the equipment.

USA
Radio Interference, FCC Statement
Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Canada
The digital apparatus does not exceed the class B limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications, standard ICES-003.

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