

EXHIBIT 5

OPERATION
 &
MANUAL

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Dade City, FL 33525

FCC ID # NTX200

The Collector

The Collector is the "receiver" part of the system. It receives all Transmitter messages and stores them in non-volatile memory. At predetermined intervals (or when forced manually), the Collector sends its stored readings to the billing facility via embedded modem.

The Collector is powered from any 110Vac source. Its contents are not effected by loss of power; however, it will not receive messages or have modem capabilities when power is removed.

In addition to its ability to receive RF signals, the Collector also contains an RF transmitter which is used during installation of the Transmitters. For example, if an installer is placing a Transmitter at a meter and wishes to ensure an acceptable transmission path is available, he can enable the Collector's transmitter and then use a separate diagnostic tool at the Transmitter site to tell him if the communications are being received. Although the "direction" of the transmission is reversed (Collector to Transmitter), the quality of the communications path can be checked.

A PC interface to the Collector allows the user to configure the Collector. This interface also allows the user to check operation of the device and to manually download all stored readings in the case of modem failure. Additionally, the Collector can be placed in the "diagnostics mode" during which several tests can be performed, as well as aiding in the installation of Transmitters (described above). Diagnostics LED are also present for quick determination of the Collector's status.

The embedded modem operates at speeds up to 2400 baud and utilizes the standard communications protocols. It is U.L. and FCC Part 68 approved.

Since the ideal location for the antenna is high, or completely outside, the building, the Collector is actually designed as two separate packages connected by a multi-conductor cable. One package contains the RF circuitry (transmitter and receiver); the other packages contains the modem, the microprocessor and peripheral components, and the power regulator. Power for the RF package is delivered as low voltage DC current. Data is transmitted between the packages by two differential-pair drivers (RS422), thus providing up to 4000 feet of separation between the two packages.

SYSTEM COMPONENTS

RF Transmitter

Programmed with an individual ID number and transmit signal about every 6 hours.

RF Repeater

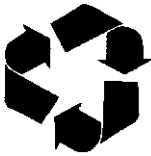
Programmed to read individual ID numbers, store that information and re-transmit the signal.

RF Collector

Collects unique ID numbers with a storage capacity up to 1024 meters. Programmed for ring initiation and dial-up capabilities. Also the collector has a real-time view log.

MSI Software Interface

This makes the Interrogator System compatible with most systems. Check with your Interrogator distributor for more information regarding compatibility.



Battery Recommendations

The Interrogator System has been designed to deliver quality performance and provide you with years of use. In order to maintain optimum performance, MSI recommends only MSI authentic accessories.

Specifically MSI recommends only the use of lithium vinyl chloride batteries with the Interrogator System. Use of other batteries will prevent proper operation.

Always dispose of batteries in an environmentally sound manner.

Installation Procedures

Contact the local phone company to install a phone line on the property in the clubhouse or the location to which you have planned to install the collection device.

COLLECTOR INSTALLATION

Locate a 110 volt power source and mount the collector's power supply (PS) at this location. Once the PS is installed, mount transceiver unit at an elevated location, preferably at a position above the highest portion of the roof or within line of sight of at least two other repeater stations. Run Cat5 cable from the PS Unit to the Transceiver Unit and crimp on the RJ-45 connectors (see Fig #3 for Pinout RJ-45). Test cable for conductivity and proper pinout pattern.

REPEATER INSTALLATION

(NOTE: Start repeater installation on building closest to the collection unit.)

Locate on the building a local 110 volt power source. Mount the repeater power supply at this location. Once the PS is installed, mount transceiver unit at an elevated location, preferably at a position above the highest portion of the roof or within line of sight of at least two other repeater stations. Run Cat5 cable from the PS Unit to the Transceiver Unit and crimp on the RJ-45 connectors (see Fig #3 for Pinout RJ-45). Test cable for conductivity and proper pinout pattern. Verify operation to the collector.

TRANSMITTER INSTALLATION

The transmitter is designed to work with leading manufacturers encoder meters.

Place the collector into transmit mode, and place meter installation receiver at the location closest to the meter register. Once the best position for reception is located, install transmitter at this location. Connect wires from each termination point on the register to the proper wires on transmitter via Gel Tab Connectors UY-2 Scotch locks (see Fig #1 for meter wiring schematics). Initialize the transmitter via magnet switch on the transmitter (see Fig #2 switch location). Verify transmission on the laptop receiver, or on the collectors log table.

DO'S & DON'TS

DO - Have an authorized installation contractor install your system. Your system's performance will be effected by the quality of the installation. Though the system has been designed to be as simple to install, only authorized installers should be used.

DO - Use only Interrogator approved accessories, software, and replacement parts.

DO - Call your authorized installer to relocate or temporarily remove transmitters or repeaters.

DO - Only install with approved encoder style meters.

DO - Call your authorized installer for any questions regarding your system.

DON'T - Attempt to modify antenna in any way. If damage occurs to antenna replace repeater or transmitter.

DON'T - Open repeater or transmitter; there are no user serviceable parts inside.

DON'T - Have any metal objects installed or placed within a 12" of repeater or transmitter.

DON'T - Allow collector or repeater base units to be exposed to moisture.

DON'T - Attempt to use any other power source than a 110 volt outlet.

FCC Information

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 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

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Introduction

Congratulations on your investment in today's leading sub-metering data collection system. We believe that you will find that the Interrogator System will supercede all of your sub-metering needs and equip you with the tools to provide your customers with service that is above and beyond.

The Interrogator System is both easy to install and maintain. Your system has been designed for many years of dependable use. (please read the do's and don'ts) With the proper care your system will provide accurate flexible performance for many years.

Please read through all of your information manual before the installation of your Interrogator System.

Thank you for purchasing an Interrogator System. For system support call 8:00am - 5:00pm (eastern standard time) at 1-888-MY METER.

SAFETY PRECAUTIONS

IMPORTANT READ THIS INFORMATION

The Interrogator Radio Frequency Metering System is the most exciting development for the metering industry. This system eliminates the difficult and sometimes hazardous task of wiring an existing structure; making the metering of properties safer from an installation and operational standpoint. Your system operates in the range of 418 MHz.

Exposure To Radio Frequency

Research on health effects from RF energy has focused for many years on FM radio technology. That research and studies regarding newer radio technologies, such as CDMA, have found no credible scientific evidence that adverse health effects result from the use of cellular telephones.

In 1991 the Institute of Electrical and Electronics Engineers (IEEE), and in 1992 the American National Standards Institute (ANSI) updated the 1982 ANSI Standard for safety levels with respect to human exposure to RF energy. Over 120 scientists, engineers, and physicians from universities, government health agencies, and industry, after reviewing the available body of research, developed this updated Standard. In March, 1993, the U.S. Federal Communications Commission (FCC) proposed the adoption of this updated Standard.

The design of your RF System complies with this updated Standard.

Antenna Care and Replacement

Replace a damaged antenna immediately. Take your equipment to an authorized service center for repair.

Use only the supplied or approved antenna. Unauthorized antennas, modifications, or attachments could impair performance, damage the transmitter or receiver, and violate FCC regulations.

MSI Fixed Network System

RF Meter Reading Program

INFORMATION MANUAL

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