

# **EXHIBIT 5**

## **OPERATION**

## **& USERS MANUAL**

Product Safety Engineering, Inc.  
12955 Bellamy Bros. Blvd.  
Dade City, FL 33525

**FCC ID # NTX100**

### The Transmitter

The Transmitter is a battery-operated device with a life of about 10 years on the same battery. It is designed to read the water meter at random intervals (about 8 hours) and then transmit the reading, the ID of the meter, and any error encountered during the reading. It can be manually activated using a special "wand" which, when placed within about 2mm of the Transmitter, will force a reading and transmission. The Transmitter is not "active" until it is first "initiated" with the wand. This allows the device to be stored indefinitely until it is installed. After being initiated, the periodic readings/transmissions begin. The device can also be placed back into its "sleep" state by a similar process.

# MSI Fixed Network System

## RF Meter Reading Program

# INFORMATION MANUAL

MSI Systems,  
4677 118th Ave. N. Clearwater, FL 33762

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## 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.

## 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.**

## 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.

## 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.

## 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.