

Interrogator 900 Systems Transceiver Unit

The transceiver unit is the central component of your wireless system. It's ease of installation and setup has proven to be superior in it's class. With minimal effort your system can be operational, thus providing data to your collection device within minutes.

FCC ID: NTXINT900

Interrogator 900 Wireless Submetering Systems

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1) This device may not cause harmful interference.
(2) This device must accept any interference received, including interference that may cause undesired operation.

Warning:

The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment.

The NTXINT900 is a low power radio transceiver / wireless devices. In August of 1996, the A federal Communications Commission (FCC) adopted RF (radio frequency) exposure guidelines with safety levels for wireless devices. To maintain compliance with the FCC's RF exposure guidelines, the antennas must be mounted so that the antennas are located 20 cm (8 inches) from the general population. RF Exposure guidelines are outlined in the FCC Office of Engineering and Technology (OET publication OET65. Use only supplied antennas by the manufacturer to insure compliance.



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Midway Services, Inc.

Interrogator 900 Transceiver User Manual



Installation Basics

The Interrogator 900 transceiver board comes pre manufactured in a metal nema case. Minimal interaction with the system board is required. You will need only to connect the Cat5 data cable to your collection unit, or the aux power supply unit should the system be used in it's repeater function.

The most important part of the installation is the location. As an overview, the system performance is based on 2 key factors.

1. To maintain compliance with the FCC's RF exposure guidelines, the antennas must be mounted so that the antennas are located 11 cm (5 inches) from the general population.
2. Placement of the 2 antennas. A minimum 10' separation is suggested.
3. Minimal Cabling with regards to the antennas from the transceiver unit, and transceiver unit to the collector unit.

If the device is to be used as a repeater unit, then you will not need to be concerned with the cabling to the collection unit.



Location Guidelines:

1. Adhere to all safety guideline requirements.
2. Install in a dry location, close to house power, 6' to 10' ideal.
3. Install in a secure location or elevated locations as to prevent ease of tampering.
4. Location of system is to be either centered on the property, or at the highest location based on the properties grade.
5. Install at the most unobtrusive location, adhering to cosmetically sound practices.

User Guidelines

Your Interrogator 900 System Transceiver Unit consists of a system board and Metal Nema Enclosure. The Enclosure contains 2 N-type feedthru's for your antenna connections and mounting brackets. The feed thru also has on the opposite ends SMB connectors, of which connect to the P1 & P2 ports on the transceiver system board.



Installation of the Nema Enclosure is completed by mounting the nema enclosure in a safe and dry location, preferably in an attic or utility closet. Your antenna connection cables should be terminated at this location as well. Once your Nema Enclosure has been mounted, connect the antenna cables to the N-Type feedthru's.



If the Transceiver System Board is to be used in conjunction with the collector interface unit, then the power to the transceiver unit is supplied by the collector via the Cat5 connection patch cable supplied. You will need to drill a 5/8" hole in a location on the bottom of the Nema Enclosure to allow the Cat5 cable access. Connection to the Transceiver Unit is located on the edge opposite of the P1 & P2 ports, and a card edge jack for the Cat5 cable.

Repeater Connection

If the Transceiver Unit is to be used in the repeater application, then the only difference in the installation is the power connection. The transceiver unit has been internally programmed to automatically detect it's function. Once it detects from which port the power is being applied, the transceiver unit switches to that mode of operation.

In the case of a repeater mode, the power is provided by an aux power supply provided by Midway Services, Inc. It is connected to Port J6 next to the Cat5 connector on the card edge. You will need to drill a hole into the bottom of the Nema Enclosure Unit for the purpose of installation



of a power outlet. Please adhere to the local jurisdictions guidelines for electrical installation. Seek a professional service to provide you with proper electrical installation should you not have in house personnel. Mount properly the external supply in the enclosure. Should you have any further question, please contact Technical Services at:

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