

INNOVATEC MODEM GATEWAY INSTALLATION

The Innovatec Modem Gateway provides the link between Innovatec IMUs and the utility computer system by transferring messages between the local area network (LAN) and the wide area network (WAN). A micro-controller controls communication between the LAN transceiver and the telephone modem inside the gateway. LAN communications is via the Innovatec 900 Mhz spread spectrum radio transceiver.

Gateways are housed in weather resistant enclosure, and are typically mounted on utility poles or other elevated structures. They are powered using 120 or 240 VAC 60 Hz line voltage, typically tapped from a streetlight photocell socket.

Installation Instructions

Note: Installation of the Innovatec modem gateway is to be performed by properly trained personnel only.

Prior to installation determine how the gateway will be powered. If possible select a utility pole with a streetlight which uses a photocell for control. Determine the voltage that the streetlight utilizes. The Innovatec gateway must only be connected to 120 volts or 240 volts AC. **Serious damage can result from connecting to a higher voltage.**

The Innovatec gateway can be mounted to wooden poles with a lag screw through the mounting holes on the top and bottom of the enclosure. It may be necessary to temporarily remove the LAN antenna to gain access to the mounting hole. Be sure to replace the antenna prior to connecting power to the gateway to prevent damage to the LAN radio.

Note: The Innovatec gateway is designed to operate only with the antenna supplied. Do not substitute any other external antenna without consulting Innovatec. Violation of FCC regulations may result if the gateway is operated with any other antenna.

To meet the FCC RF Safety Exposure Compliance, verify that the Gateway antenna is located such that a minimum of 20 cm or 8 inch separation is provided from the persons.

To install the photocell power tap, remove the streetlight photocell, by turning counterclockwise and lifting up. Install the photocell power tap in the photocell socket and replace the photocell into the socket on top of the photocell power tap. Attach the power cable securely to the streetlight mounting arm and tot the pole. Coil any excess cable and secure with cable ties. Connect the power cable to the gateway power connector.

The telephone line is typically terminated by the telephone company at the base of the pole in a standard demarcation box. Connect the phone line cable to the demarcation block and run it up the pole to the gateway. Secure the cable to the pole with appropriate hardware. The telephone cable is attached to the gateway with the weatherproof connector.

When power in connected to the gateway the power LED will light. The LAN transmit and receive lights will blink alternately for about 2 minutes as the software initializes. When the lights stop blinking the gateway is ready for operation. Close the hinged gateway cover and secure the cover fasteners.

No adjustments to the gateway itself are possible. If the unit to be installed does not communicate with the LAN or does not configure properly, inspect the photocell and AC wiring and the telephone wiring. If the problem persists, return the gateway to the Meter Shop for evaluation. Do not attempt to repair the gateway.

FCC WARNING STATEMENTS

NOTE: This equipment has been tested and found to comply with the limits for 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. The 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.

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