Endpoint Installation Instructions

Model: Endpoint   **FCC ID: Q8Q-SRE**

BLU: TOWER

Description

The Endpoint is a water register integrated with a 1-Watt 915MHz ISM band radio and forms a part of the Smart Route AMR network. The Endpoint is designed to automatically join the best available DataCollector in range and transmits meter reading and status information as and when requested by the DataCollector.

Note Please refer to the Technical Manual for further information.

Specification

Power Supply: 3.6V Lithium Thionyl Chloride battery (non-replaceable)
Operating Frequency: 902MHz to 928MHz (FHSS)

Required Equipment

The following items are required for Endpoint installation:
- Endpoint Unit.
- DataConfig unit
- USB-A to USB-miniB Cable.
- Laptop running Windows XP / Vista / 7.
- 'Endpoint Configurator' software.
- Bar Magnet

Installation Instructions

The Endpoint could be mounted on compatible meter-bases either inside the water-meter pit or outside. The unit is designed to be wall-mounted or pole-mounted in normal operation.

To mount the unit:
1. Fix a suitable adapter ring for the type of meter-base being used by locking it in place. Contact BluTower directly to check compatible meter bases and available adapter rings.
2. Place the endpoint in the adapter ring. It could be rotated and installed in any of the 4 positions at a 90degrees step. Select a position which gets the antenna closest to the centre of the pit to get the best wireless range.
3. Hold a magnet over the top side-wall of the top cover to the left of the LCD screen to wake up the endpoint from the standby in to the configuration mode.
4. Connect the DataConfig unit to the laptop and using the Endpoint Configurator software on the laptop configure the settings required for the endpoint wirelessly into the endpoint. Please refer to the Endpoint Configuration Manual for details on the available settings.
5. Once done with the configuration, put the endpoint in the network scan mode from the Endpoint Configurator software.
6. If the endpoint finds a DataCollector in direct range it joins it and shows the Signal strength on the LCD.
7. If not it waits in the Level-2 Commisioning mode until it finds another endpoint through which it can connect to a DataCollector network.

Note: All the DataCollectors required for the installation site must be installed and the Level-1 Commissioning mode must be enabled on the DataCollector before installing any endpoints.

General Warnings and Safety

Caution Ensure a separation distance of at least 20 cm (8 inches) is normally maintained between the transmitter's antenna and the body of the user or nearby persons. The Endpoint is not designed for or intended to be used in portable applications within 20 cm. (8 inches) of the body of the user.
Warning Changes or modifications to the product not expressly approved by BluTower could void the user's authority to operate the equipment. See FCC information below.

This sheet provides instructions needed to successfully connect and configure the Endpoint for use in a SmartRoute Network. These instructions are only a supplement to training in the operation of the product. For further training information, contact BluTower directly.

Regulatory Information

FCC Part 15 Regulation
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, and
(2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. The antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not transmit simultaneously with any other antenna or transmitter.