

DataRelay Installation Instructions

Model: DataRelay900



Description

The DataRelay900 forms an intermediate node between the central DataSend unit and the Water Meters (Endpoints) in a DataStream Radio network.

The system is specifically designed to receive radio transmissions from TransPondIT, DataSource915 and ESP modules.

Each DataRelay is able to monitor the transmissions from up to 50 individual Endpoint modules.

Note Please refer to the Technical Manual for further information.

Specification

Power Supply: 5Vdc 400mA

Operating Frequency: 902MHz to 928MHz (Frequency Hopping)

Required Equipment

The following items are required for DataRelay installation:

- DataRelay900.
- 5Vdc 400mA Power supply.

Installation Instructions

Note: DataStream Systems are intended to be professionally installed. Only a half-wave dipole antenna with a maximum gain of 2.15dBi should be fitted to the product to meet the FCC regulations.

The DataRelay Unit is designed to be 'wall-mounted' and unattended in normal operation.

To mount the unit:

1. Before fitting, make a note of the 3-digit *DataRelay ID*, as recorded on the Serial Number Label. This number will be required later to configure the central DataSend unit.
2. Remove the box lid; use a screwdriver to release each of the lid screws from the box.
3. Before fixing, ensure the Box is positioned so that the RF antenna may be orientated vertically (upwards).
4. Using suitable wall mountings screw the box to the wall through the holes in the four corners of the box.
5. Once the box is securely fixed to the wall, refit the Lid and fit the supplied blanking caps to cover the lid screws.
6. Finally connect a suitable 5Vdc Power Supply to the 2.1mm Power Jack.

Configuration Procedure

The DataRelay is designed to be exclusively controlled 'over-the-air' via the DataStream Network, and so configuration will be carried out via the central DataSend unit – either remotely or via the internal USB interface. See the '*DataSend Installation Instructions*' and the '*DataStream Configuration Manual*' for details.

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 DataRelay 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 DataRelay for use in a DataStream 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, except in accordance with FCC multi-transmitter product procedures.