



MKIII-LR Radio Repeater

User's Guide

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FCC DISCLAIMER

This equipment generates and uses radio frequency energy, and if not installed properly in strict accordance with the manufacturer's instructions, may cause interference to radio and television reception. It has been type tested and found to comply with the limits for a class B computing device in accordance with the specifications in Subpart J of Part 15 of FCC rules, which are designed to provide reasonable protection against such interference in residential installation. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause 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 the receiving antenna
- Increase the separation between the equipment and the receiver
- Connect the equipment to an outlet on a circuit different from the one the receiver is connected to
- Consult the dealer or an experienced radio/television technician for help

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

Table of Contents

1)Introduction	3
2)Installation	3
2.1)Selecting Appropriate Location.....	3
2.2)Set-up	3
2.3)Configuration.....	3
2.4)Testing Communication.....	3
3)Product Support	4
4)Warranty	4

1) Introduction

The MK-III-LR radio repeater was designed to improve signal quality between the MK-III-LR weather station and receiving devices in situations where direct line-of-site is not possible or where obstacles impede the transmission of radio signal. Repeaters can be used to obtain a continuous signal around corners or boost a weak signal within buildings. Multiple repeaters can be used should this be necessary.

2) Installation

2.1) Selecting Appropriate Location

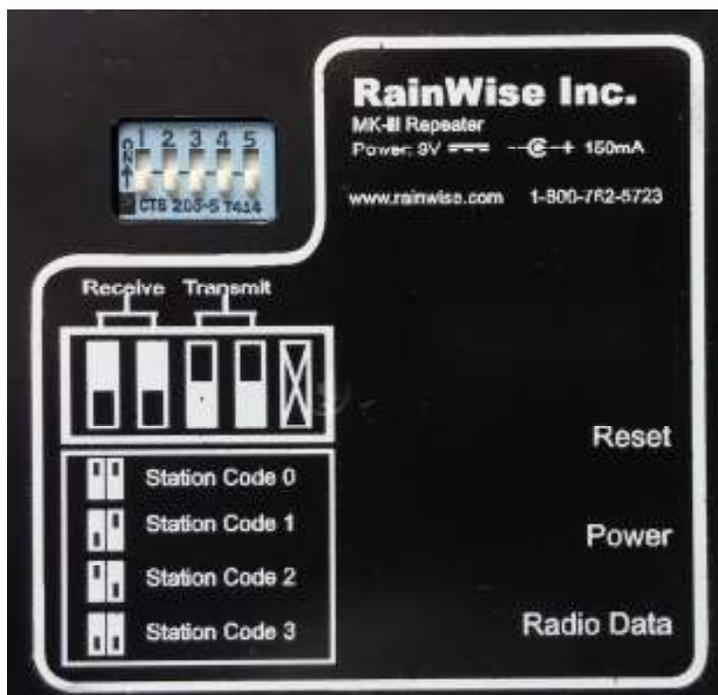
The MK-III-LR Repeater has a maximum range of 1 mile clear line-of-sight between itself and the transmitting device, and again between itself and the receiving device.

The Repeater must be located in a place that is weatherproof, within reach of an electrical outlet, and free from obstructions to communications. Things that may reduce or disable communications are:

- Metal roofing or siding
- Brick, stone or cement structures
- Trees or dense foliage

2.2) Set-up

To set the MK-III-LR Repeater for communications, the switches on the bottom of it must be configured.



The configuration code between the MKIII Sensor Assembly and the Repeater must be different than the configuration code between the receiving device(s) and the Repeater.

Configuration of the switches is shown here in the photo and also on the bottom of your repeater.

Receive (switches 1 & 2) – refers to the signal that the Repeater will receive from the MKIII Sensor Assembly.

Transmit (switches 3 & 4) – refers to the signal that will be transmitted to the receiving device(s).

Switch 5 has no function.

Once power is applied, the repeater begins operating. Data reception is indicated by a blinking red LED adjacent to the Radio Data label.

2.3) Configuration

Matching the MKIII Sensor Assembly and Repeater codes.

The factory default code in the MKIII Sensor Assembly is code 0. Additionally, all of the switches on the Repeater have the same factory default setting of 0. Therefore, unless you have changed the default setting in the MKIII Sensor Assembly, it will communicate with the Repeater as code 0.

If your MKIII Sensor Assembly has been set to a code other than 0, you must set the Repeater code to match it.

To view the code setting in your MKIII Sensor Assembly, loosen the screws in each of the four corners of the solar panel cover. Gently pull the solar panel cover away from the Sensor Assembly until you can disconnect it from the motherboard. You will view the configuration switches in the upper left corner of the motherboard. Switches #1 & #2 control the coding of the Sensor Assembly and must be configured the same as switches #1 & #2 on the Repeater.

Setting the Repeater code for the receiving device(s).

The **Transmit** code configures communication between the Repeater and the receiving device(s). This code can be set to any code that is different from the **Receive** code. Once a **Transmit** code has been selected, the receiving device(s) must be configured to match.

Please refer to the Owner's Manual of the appropriate receiving device for instructions to change the code.

3) Product Support

If you are experiencing problems, or if you simply have questions about your product, please contact our service department.

Phone: (207) 288-5169 Toll Free: (800) 762-5723

Email: <http://www.rainwise.com/about/contact>

Mail: RainWise Inc.

18 River Field Road

Trenton, ME 04605 USA

4) Warranty

RainWise, Inc. warrants the MKIII Repeater against defects in materials and/or workmanship for a period of **2** years from the date of purchase and agrees to repair or replace any defective product without charge. Equipment supplied by RainWise but not manufactured by RainWise is covered by the particular warranty of that manufacturer.

IMPORTANT: This warranty does not cover damages resulting from accident, misuse or abuse, lack of reasonable care, the fixing of any attachment not provided with the product or damage due to a lightning strike. RainWise, Inc. will not reimburse for take-down or installation charges. RainWise, Inc. will not pay for warranty service performed by a non-authorized repair service and will not reimburse the consumer for damage resulting from warranty service performed by a non-authorized repair service. No responsibility is assumed for any special, incidental or consequential damages.

To return a unit under this warranty, call (800)762-5723 within the continental US or (207)288-5169. The service department will document the need for repair/replacement and arrange such. Shipping costs from the customer to RainWise are borne by the customer, RainWise will cover return shipment. It is the customer's responsibility to see that the unit is properly packed, preferably in the original box, because damage occurring during return shipment is not covered by this warranty.

NOTE: No other warranty, written or oral, is authorized by RainWise, Inc. This warranty gives you specific legal rights, and you may also have other rights, which vary from state to state. Some states do not allow the exclusion of limitation of incidental or consequential damages, so the above exclusion and limitations may not apply to you.