

Configuring the Mercury EN Radio Frequency Unit

(Ethernet)

Parts Needed:

2. Ethernet Mercury Units and Antennas
- 1 Supplied serial cable
2. Supplied power cables
1. Ethernet CAT5 cable (see below for instructions)
1. Null Ethernet Cable (see below for instructions)
1. PC with a terminal emulation program set for VT100, 8, N, 1, AT 9600 baud and a 9 pin serial port
1. Small wire bent at a 90° angle

Directions for making the CAT5 network cable above:

1. White with orange
2. Orange
3. White with blue
4. Green
5. White with green
6. Blue
7. White with brown
8. Brown

Hold the wires in your hand in numerical order from left to right

(white orange, orange, white blue, green, etc...) place them inside an RJ45 modular clip with the locking tab facing away from you or downward.

Finish by putting the clip on the other end by repeating the above procedure.

Directions for making the Null Ethernet network cable above:

- 1.White with blue
- 2.Blue
- 3.White with orange
- 4.Green
- 5.White with green
- 6.Orange
- 7.White with brown
- 8.Brown

Hold the wires in your hand in numerical order from left to right

(white orange, orange, white blue, green, etc...)

Place them inside an RJ45 modular clip with the locking tab facing away from you or downward.

Finish by putting the clip on the other end using the procedure for a CAT5 cable.

Programming

1. Connect the first Mercury to the computer using the serial cable supplied with the unit.
2. Connect the power supply to the Mercury unit.
3. Using Tiny Term or a similar Terminal program (using the above communication settings) press configure using the small wire. A menu should appear.
4. Using the ARROW keys on the keyboard, select "Reset configuration to default" from the menu. Confirm the selection on the next screen.
5. Remove power from the first Mercury unit, and disconnect it from the serial cable.
6. Connect the second Mercury to the serial cable and power cable.
7. Restart the terminal program.
8. Press the configure button on the second Mercury unit using the small wire.
9. Using the ARROW keys, select "Reset configuration to default" from the menu and confirm on the next screen.
10. From the menu, select "RS-232 port (uart0)". A full screen of information will appear.

11. Scroll down to an area that looks like this:

```
[tpcbind1b]
```

```
protocol = tcp
```

```
ip address = 128.1.1.65
```

```
remote tcp port = 4000
```

12. On the line that reads " ip address = 128.1.1.65 change this to read 200.10.10.181

13. Press <CTRL W> to save the information.

14. From the menu, select "Bridged Ethernet (lan0)"

15. Scroll down to the line that says " ip address = 128.1.1.64" (near line 18), and change the line to read " ip address = 200.10.10.180

16. Press <CTRL W> to save the information.

17. Disconnect the power and the serial cable from the unit.

18. Select "Edit Configuration"

19. From the menu, select "RS-232 port (uart0)". A full screen of information will appear.

20. Scroll down to an area that looks like this:

```
[tpcbind1b]
```

```
protocol = tcp
```

```
ip address = 128.1.1.65
```

```
remote tcp port = 4000
```

21. On the line that reads " ip address = 128.1.1.65 change this to read 200.10.10.180

22. Press <CTRL W> to save the information.

23. From the menu, select "Bridged Ethernet (lan0)"

24. Scroll down to the line that says " ip address = 128.1.1.64" (near line 18), and change the line to read " ip address = 200.10.10.181

25. Press <CTRL W> to save the information.

26. Disconnect the power and the serial cable from the unit.

Connection

To connect the programmed Mercury units to the system you must use the following diagram or the units will not work!!!

