# HAI - Rain8 UPB Connection

1. Follow the Rain8 UPB installation instructions to configure the device properly. When setting the module number use the chart below to find free units in your UPB network. The Rain8 UPB instructions are documented below the table.

| Group of Rain8 UPB Units (Rain8 Module Number) | House Code | Group of Rain8 UPB Units (Rain8 Module Number) | House Code |
|---|---|---|---|
| 1-8 (1) | 1 | 129-136 (17) | 9 |
| 9-16 (2) | | 137-144 (18) | |
| 17-24 (3) | 2 | 145-152 (19) | 10 |
| 25-32 (4) | | 153-160 (20) | |
| 33-40 (5) | 3 | 161-168 (21) | 11 |
| 41-48 (6) | | 169-176 (22) | |
| 49-56 (7) | 4 | 177-184 (23) | 12 |
| 57-64 (8) | | 185-192 (24) | |
| 65-72 (9) | 5 | 193-200 (25) | 13 |
| 73-80 (10) | | 201-208 (26) | |
| 81-88 (11) | 6 | 209-216 (27) | 14 |
| 89-96 (12) | | 217-224 (28) | |
| 97-104 (13) | 7 | 225-232 (29) | 15 |
| 105-112 (14) | | 233-240 (30) | |
| 113-120 (15) | 8 | 241-248 (31) | 16 |
| 121-128 (16) | | | |

a. Download initial configuration software at page bottom http://wgldesigns.com/rain8upb.html
b. Using the RJ11 cable and the DB9 adapter (but not the gender changer), connect DB9 end to a COM port or USB adapter on your PC. Connect the RJ11 end to the jack labeled “PIM-config”” on the left.
d. Select the serial port that the Rain8upb is connected to and click “Apply” to select COM port. “After a few seconds you should see a message box indicating that a UPB Rain8 was detected. Click on “OK”.
e. Enter the NID number that identifies your UPB network.
f. Enter the Rain8 module # you wish to assign to this module. Note that the corresponding DID (device ID) number for each zone is displayed just below. For example if you enter module# 3 you should see the mapping for all 8 zones. Zone 1 = DID 17, 2 = 18, etc.
g. It is recommended that these two assignments be recorded in the appropriate boxes on the module label. It is a good idea to record the DID assignments for each zone as these will be needed later.
h. The 8 input boxes labeled “default run timers” are used to program the maximum allowed run time in minutes or seconds that a given zone or valve will run before turning off automatically. The settings for each zone may be anything from 0 to 250 increments. This prevents “run away irrigation” in the event of a lost “OFF” command. If this feature is desired click on “enable” and select minutes or seconds.
i. The “Input” feature would be enabled if your installation requires a flow meter or rain switch.
j. The last step is to click on the “load module” button. The configuration data is now loaded into your Rain8upb. Disconnect the RJ11 cable from the PC and module.

2. Under Setup>>Names>>Buttons, name a button SPRINK START.

3. Under Setup>>Names>>Units, name the corresponding 8 Rain8 Units as desired. For our application, we will use the following:
    a. SPRINKLER 1
    b. SPRINKLER 2
    c. SPRINKLER 3
    d. SPRINKLER 4
    e. SPRINKLER 5
    f. SPRINKLER 6
    g. SPRINKLER 7
    h. SPRINKLER 8

4. Under Setup>>Names>>Units, name 7 Flags as desired. For our application, we will use the following:
    a. SPRINK 1 TMR
    b. SPRINK 2 TMR
    c. SPRINK 3 TMR
    d. SPRINK 4 TMR
    e. SPRINK 5 TMR
    f. SPRINK 6 TMR
    g. SPRINK 7 TMR

**Configuration/Programming**:

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 1. WHEN SPRINK START: SPRINKLER 1 ON FOR 10 MINUTES
 2. WHEN SPRINKLER 1 OFF: SPRINK 1 TMR ON FOR 1 SECOND
 3. WHEN SPRINK 1 TMR OFF: SPRINKLER 2 ON FOR 10 MINUTES
 4. WHEN SPRINKLER 2 OFF: SPRINK 2 TMR ON FOR 1 SECOND
 5. WHEN SPRINK 2 TMR OFF: SPRINKLER 3 ON FOR 10 MINUTESS
 6. WHEN SPRINKLER 3 OFF: SPRINK 3 TMR ON FOR 1 SECOND
 7. WHEN SPRINK 3 TMR OFF: SPRINKLER 4 ON FOR 10 MINUTES
 8. WHEN SPRINKLER 4 OFF: SPRINK 4 TMR ON FOR 1 SECOND
 9. WHEN SPRINK 4 TMR OFF: SPRINKLER 5 ON FOR 10 MINUTES
10. WHEN SPRINKLER 5 OFF: SPRINK 5 TMR ON FOR 1 SECOND
11. WHEN SPRINK 5 TMR OFF: SPRINKLER 6 ON FOR 10 MINUTES
12. WHEN SPRINKLER 6 OFF: SPRINK 6 TMR ON FOR 1 SECOND
13. WHEN SPRINK 6 TMR OFF: SPRINKLER 7 ON FOR 10 MINUTES
14. WHEN SPRINKLER 7 OFF: SPRINK 7 TMR ON FOR 1 SECOND
15. WHEN SPRINK 7 TMR OFF: SPRINKLER 8 ON FOR 10 MINUTES
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Line 1 begins the routine.
Lines 2-15 turn the flags on for 10 minute periods.