

PTT Connection for a 2 Way Radio

This option allows the user to access and interrogate the **WeatherVox** through the use of a 2 way radio, whilst still allowing the **WeatherVox** to be connected to and used by a standard phone line. All soft setting modes are still accessible via both telephone and radio allowing much greater flexibility for your **WeatherVox**. The use of PTT output also introduces the possibilities of larger networks of weather stations, installed at different locations, each with its own unique entry code that can be accessed on the same radio frequency.

In order for a radio user to access **WeatherVox** They simply press the “ * ” key on there keypad, followed by a four digit entry code, **WeatherVox** will then answer the user as if it were a normal phone call. Note that in the event that the **WeatherVox** is in a call on the phone line, typing in your code via the keypad will have no effect, also that if the **WeatherVox** is called simultaneously by a phone user and by radio, the radio users call will have priority over the phone user, and the **WeatherVox** will continue ringing for the phone user, and it will not pick up.

Additional soft settings

PTT users will find two additional soft settings that they can access, these are for setting and recalling your four digit entry code. These additional soft settings are:

| | |
|-----------|--|
| *307nnnn* | Set four digit entry code. default =1234 |
| *308* | Speak entry code. |

Note that *308* will be broadcast to all users on the radio frequency, So if you wish to restrict the use of the **WeatherVox** then it may be best to use this function only via telephone access.

The pins that require connection for PTT use are those of the 6 pin header labelled J7 on the **WeatherVox** board. Pin 1 is located closest to RD/TD LED's The pin layout is as follows:

| | |
|--------|-----------------|
| Pin 1: | ground |
| Pin 2: | PTT output |
| Pin 3: | ground |
| Pin 4: | Audio output |
| Pin 5: | Audio input |
| Pin 6: | Contact Closure |

Technical Specifications

Audio Output is set to 5khz deviation for an FM transmission and has the appropriate coupling capacitor for this level.

The Audio input level required is 100mV at -20db for DTMF to work correctly. It should be noted that a coupling capacitor of approximately 0.01uF may need to be installed for this input pin. DTMF input from a 2 way radio should be tested thoroughly, and the installer should note that some radios audio output is adjusted from the volume control, if audio is taken from the speaker jack of a radio. Audio can also be taken direct from the speaker for a more direct input.

PTT output pin will be pulled down to earth to enable the PTT to work. The contact closure pin is used to activate **WeatherVox** by momentary contact with ground.