

## Using your WN2 to Send Text/Email Fault Messages

Rev.1

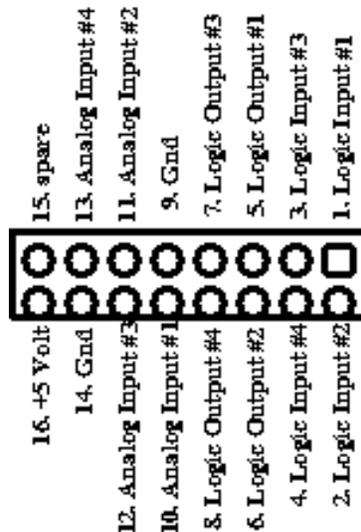
### BRIEF:

Your WN-2 can provide an Email or Text message to notify the user of a fault condition. This fault monitoring is perfect for remote base station or repeater operation. Three types of faults can be detected.

- High SWR detected. The user sets the SWR trip level and which of the four sensor positions will generate the fault. No additional external connections are necessary.
- R.F. Power too low. The user sets a power level threshold for each sensor. If the power goes below this level, a fault message is sent. This is most useful for FM or other phase modulated signals with a relatively constant power level. The P.T.T. (transmit is true and active logic low) is provided to the rear panel 16-pin connector for each transmitter being monitored.
- External battery or power supply levels. Four analog inputs can be monitored from the system power supplies. When a user defined low threshold is reached, the WN-2 will send a fault message. The inputs have a 0-20 Volt DC range.

### INSTRUCTIONS:

Your WN2 has 16-pin ribbon connector on the rear panel with the pinout shown as below:



**Fig. #1** This view is looking at the connector from the rear panel. Note that pin 1 is at the upper-right.

You will need a standard 16 pin ribbon connector to interface to the connector on the rear panel. Click on the block diagram drawing link below to show how to connect your P.T.T. lines and power supplies to the ribbon connector for fault monitoring.

[Link to WN-2 Fault Monitor Wiring for Email/Text Notifications](#)

## 1. Setting up the Hardware:

After performing any external wiring necessary as shown in the link above, set up your email address(es) as necessary in the "Email" item on the WN-2 software menu bar. The menu is shown below in Figure #2.

**Fault Email Setup Menu**

**OPEN THE EMAIL SETUP MENU**

Click to send Test Message Using your Settings

**Set the Minimum R.F. Level To Trigger an Error Email**

	Min. RF (watts)	Status (Red=Fail)
<input checked="" type="checkbox"/> Enable PTT #1	70	<input checked="" type="radio"/>
<input type="checkbox"/> Enable PTT #2	80	<input type="radio"/>
<input type="checkbox"/> Enable PTT #3	90	<input type="radio"/>
<input type="checkbox"/> Enable PTT #4	100	<input type="radio"/>

**Minimum DC Voltage to Trigger an Error Email**

	Min. Voltage	Status
<input type="checkbox"/> Volt.Level #1	4	<input type="radio"/>
<input type="checkbox"/> Volt Level #2	4	<input type="radio"/>
<input type="checkbox"/> Volt Level #3	4	<input type="radio"/>
<input type="checkbox"/> Volt Level #4	4	<input type="radio"/>

**Send Email for High SWR**

Check to send Email

**Instructions For Setting Up Email**

**Memo 1**  
Email Hints:

1. We recommend Google Email to receive and then distribute the email fault notice. You can open a Google account and gmail mailbox specifically for your Wavenode email fault application.
2. Click the "OPEN THE EMAIL SETUP MENU" button on the Email Setup form, then click the "Configure Settings with GUI" button at the bottom of the SwithMail form.  
Fill in the email address, password, the forwarding address, and email text text boxes. Make sure you click the SMPT Gmail radio button. Click the "Test Settings" button to send a sample email. Check your gmail sent box to make sure that gmail received and forwarded your email.  
Save your settings when prompted to the xml file. This is the "Save to XML" button at the bottom of the "Configure Email Settings" screen.
3. Important: Gmail may give you an error message because it will not receive an email from an unsecured source. You will need to open your Google account, open the "Security" settings on the left margin. Scroll down and find the "Less secure app access". Turn on this setting.

**Save Settings**   **Close Menu**   **Reset Fault Status**   **Wavenode WN-2**

**Figure #2. The Email Setup menu**

Use the checkboxes to set which fault conditions will trigger a fault email. Set the low power levels or power supply levels in the text boxes next to the check boxes. Click the "Save Settings" to save your selections.

Notice that the fault that triggered the email will show a Red circle next to it. Use the "Reset Fault Status" button to reset all the indicated faults. When a fault email is sent, no additional fault emails will be sent until the "Reset" button is clicked as shown below in Figure #3. This eliminates a flood of emails sent to the email address.



**Figure #3. The Reset message shown when a fault email has been sent**

Check your WN-2 manual for additional information regarding the fault email feature and email setup. This is found on you CDROM, on the Wavenode website in the Support->Documents section or your WN-2 software menu bar as the "Help" item.