Part Five:

Performing System Setup Functions

Use the Setup menu to perform the following functions:

- Check the battery power level
- Put the transmitter into low power standby mode when the transmitter will not be used for temporary periods
- Configuring the Guardian

Checking the Battery

To check the battery power level:

1. From the Main menu press **More.**

2. From the More menu press **Setup**

3. From the Setup menu press **Bat.** The battery status will display as depicted in Figure 5-1.
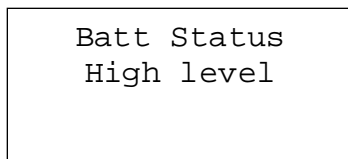
```
Batt Status
High level
```

Figure 5-1. *Battery Status Display*

There are 3 states that can be displayed under battery status. They are:

High Level	Battery voltage above 7.8 volts.
Mid Level	Battery voltage between 6.0 volts and 7.8 volts.
Low Level	Battery voltage below 6.0 volts.

Replace the battery when Battery Status indicates "low battery".

Putting the Transmitter into Standby Mode

The Guardian transmitter can be put into low power standby mode for temporary storage. For long term storage, remove the battery to protect the Guardian unit. Selecting the standby mode saves up to 60% of the power consumption by turning off the SpO_2, LCD display and transmitter. However, you cannot put the transmitter into standby mode when it is connected to ECG or has a valid SpO_2 signal.

To put the unit into standby mode:

1. Select **More** from the Main menu.

2. Select **Setup.**

3. Select **Off**. The TX Standby menu will be displayed as depicted in Figure 5-2.

```
┌─────────────────────────┐
│      TX STANDBY         │
│    YES        NO        │
│                         │
│                         │
└─────────────────────────┘
```

Yes will be flashing. To confirm standby, select **Yes**. If you change your mind about selecting standby mode, use the **arrow** key to select **No**. After making a selection, you will return to the Setup menu.

If the transmitter is in standby mode, press and hold the Menu button for 1 second to resume normal operation.

Configuring the Guardian

The Guardian allows you to set certain default values that take effect when the unit is powered on. You can configure transmitter frequency, display mode, and measurement defaults for SpO_2, ECG, and Temperature.

Keep in mind that these functions require that you enter the Conf menu system. Any time you select the Conf option from the menu the key pad will lock. Press and hold the arrow key for 3 seconds to unlock the keypad before proceeding.

Changing Transmitter Frequency

To change the transmitter frequency:

1. From the Main menu select **More.**

2. Select **Setup.**

3. From the Setup menu select **Conf.**

4. From the Conf Setup menu select **Channel**. The Channel menu will be displayed as depicted in Figure 5-3.
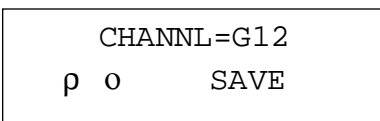
```
┌─────────────────────────┐
│     CHANNL=G12          │
│  ρ  o        SAVE       │
└─────────────────────────┘
```

Figure 5-3. *Channel Menu*

The current channel setting is displayed in the top row of the display. To change the setting use the right arrow key to highlight either the up or down arrows on the display, depending on whether you want to increment or decrement the setting. Once the arrow you want to use is flashing, press **Enter**. And then use the **Enter** key to change the setting. The channel will change one number at a time when you press and release the **Enter** key. It will change by 10 if you press and hold the **Enter** key. When the desired channel is set, select **Save** and press **Enter**. Once you save the setting, the Main menu will be displayed.

Configuring the Display mode
You can configure the display mode of the Guardian to either operate continuously or to cycle down 90 seconds after the last key is pressed.

Do the following to configure display mode:

1. From the Main menu select **More.**

2. Select **Setup.**

```
┌─────────────────────────┐
│      DSPLAY MENU        │
│  CONT       CYCLE*      │
│                         │
└─────────────────────────┘
```

3. From the Setup menu select **Conf.**

4. From the Conf Setup menu select **More.**

5. Select **Disp**. The Display menu will appear as depicted in Figure 5-4.

Figure 5-4. *Display Menu*

6. Highlight the selected option, either **Cont** or **Cycle** and press Enter. If you put the display into cycle mode, press the Menu key to bring the display up after it has powered off.

Setting Measurement Defaults

The Guardian's default settings are used at power-up. They will appear marked with an asterisk (*) as you navigate through the menus. You can change the default settings for SpO2, ECG, and Temperature from the unit's Default Setup menu.

To access this menu:

1. From Main menu select **More.**

2. Select **Setup**.

3. From Setup menu select **Conf.**

4. From Conf Setup select **More.**

5. Select **Default.**

6. The Default setup menu will appear, as depicted in Figure 5-5.

Figure 5-5. *Default Setup Menu*

Setting SpO₂ Defaults

```
    DEFLT SETUP
  SPO2   ECG   TMP
```

You can use the SpO₂ default funct   rement interval, the filter mode,
and parameter off/on mode.

1. Display the **Default Setup** menu as described in the section "Setting Measurement Defaults".

2. Select **SpO₂** . The SpO$_2$ default menu will display. It is illustrated in Figure 5-6.

.

```
        SP02 DEFLT
      INTERVL   MORE
```

Figure 5-6. *SpO$_2$ Default Menu*

3. To set the default for the SpO$_2$ Interval, select **Intervl**. The SpO$_2$ Interval Default menu will display as depicted in Figure 5-7.

```
        O2    INT/MIN
     CONT *     1         2
```

Figure 5-7. *SpO₂ Interval Default Menu*

Select Cont to have the Guardian ┌─────────────────────┐ . Select 1 or 2 to have the
Guardian monitor at one or two n │   SpO2   DEFLT   │
                                 │ MODE   ON/OFF   │
For more information on the chara└─────────────────────┘ Part 2 of this manual.

4. To set the default for the SpO₂ filter mode, select More from the SpO₂ default menu (see Figure 5-6). The second page of the Sp0₂ Default menu will display. It is depicted in Figure 5-8.

Figure 5-8. *Sp0₂ Default Menu*

Select Mode to display the SpO$_2$ Mode Default menu as depicted in Figure 5-9.

```
        SpO2   MODE
   NORMAL        SLOW
```

Figure 5-9. *SpO$_2$ Mode Default Menu*

Select either Normal or Slow as the default mode. For more information on the characteristics of these settings, refer to Part 3 of this guide.

5. To set the On/Off default for the SpO$_2$ parameter at power-up, select More from the SpO2 default menu (see Figure 5-6). The Sp0$_2$ Default menu will display. Refer to Figure 5-8 for an example.

Select On/Off to display the O_2 Off? Confirmation menu. It is depicted in Figure 5-10.

Figure 5-10. *SpO$_2$ Off? Confirmation Menu*

```
        O2   OFF?
      YES      NO  *
```

ECG Defaults

Follow the steps in the section " ... " the Default Setup menu as depicted in Figure 5-5.

To set ECG Defaults, do the following:

1. Select ECG from the Default Setup menu.

2. The ECG Default menu will display as depicted in Figure 5-11.

```
        ECG DEFLT
   3LD   DFLT    OFF
```
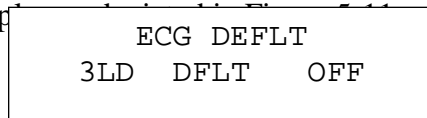
Figure 5-11. *ECG Default Menu*

To set the default lead selection, choose **3LD DFLT**. The 3LD DFLT Menu will be displayed as depicted in Figure 5-12.

```
        3LD   DFLT
      I      II *
```
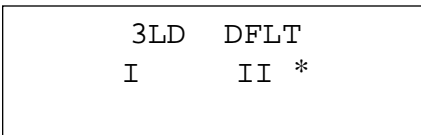
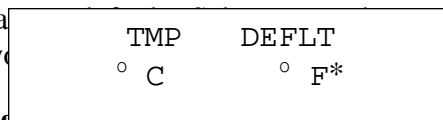**Figure 5-12**. *3LD DFLT Menu*

Select the desired default lead. Refer to part 4 of this guide for specific information on the characteristics of the ECG setting options.

The Guardian transmitter can be used as a stand alone SpO2 device and can be set so that ECG information is not sent to the receiver, as long as there is no ECG cable connected to the patient. If an ECG signal is detected, ECG [   ] turned off again.

```
        Ecg off?
     Yes     no*
```

To turn ECG off at power-up [   ] epicted in Figure 5-11. The ECG Off? Confirmation menu will display as depicted in Figure 5-13.

Figure 5-13. *ECG Off? Confirmation Menu*

Select **Yes** and press **Enter** to set a ⬚⬚⬚⬚⬚⬚⬚⬚⬚⬚⬚⬚⬚⬚ **Enter** to cancel the operation.
Once you have made a selection, yⵛ⬚⬚⬚⬚⬚⬚⬚⬚⬚⬚⬚⬚ ᴴenu.

```
     TMP     DEFLT
   ° C        ° F*
```

Setting Temperature Display Defaults

You can set a default for the mode in which the Guardian displays temperature.

1. Follow the steps in the section "Setting Measurement Defaults" to display the Default Setup menu as depicted in Figure 5-5.

2. Select TMP to display the TMP Default Menu, as depicted in Figure 5-14.

Figure 5-14. *TMP Default Menu*

3. Select the desired measurement mode and press **Enter.** You will return to the Default Setup menu. Press the Menu key until you return to the Main menu.