PROVIDER GUIDE





IMPORTANT! Remove this guide before giving the device to the patient. Only medical professionals should adjust pressure settings. This guide provides you with instructions on how to access and navigate the provider screens used to modify device settings. Refer to the User Manual for more information.

Note: The screens shown throughout this guide are examples only. Actual screens may vary slightly.

Accessing the Provider Mode Screens

Accessing provider mode unlocks settings that cannot be modified by the user. To access provider mode:

- 1. Supply Power to the device. First, plug the socket end of the AC power cord into the power supply. Then plug the pronged end of the AC power cord into an electrical outlet that is not controlled by a wall switch. Finally, plug the power supply cord's connector into the power inlet on the back of the device.
- 2. Once the device is powered, the Home Screen appears, shown below. Turn the wheel to toggle between the four options and highlight "Setup".



Home Screen

Note: "Bi-Flex" shown above will display as the current Flex mode.

- 3. Once "Setup" is highlighted, press and hold both the Control Wheel and the Ramp Button 🖉 on the device for at least 5 seconds.
- 4. You will hear a quick double beep and the Provider Mode Screen will appear, shown below. You are now in provider mode.

EXIT	Reminder
Info	Setup

Provider Screen

Navigating the Provider Mode Screens

To navigate these display screens:

Turn the wheel to toggle between options and settings on the screen. Press the wheel to choose an option or setting that is highlighted. If you choose "Back" on any screen, it will take you back to the previous screen.

Note: Choose "EXIT" from the Provider Screen will exit provider mode and the device will return to the Home Screen in the patient mode.

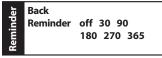
Note: Provider mode will time out after 1 minute of inactivity and automatically exit the provider mode and return to the Home Screen in the patient mode.

Provider Mode Screen Descriptions

The following sections will describe the options available under the 3 choices from the Provider Screen (Reminder, Setup, and Info).

Reminder Screen

From the Provider screen, highlight "Reminder" and press the wheel. The following Reminder screen will appear.



Reminder Screen

• **Reminder** - You can set a reminder on this screen that will let patients know when it is time to perform a certain task, such as replacing the mask. You can select one of the following settings: Off (no reminder is set), or you can set the device to display a reminder after 30, 90, 180, 270, or 365 days.

Note: You can set a specific patient reminder message using the Encore Pro software, and put this message on the SD Card or send it to the patient's device via a modem.

Setup Screen

From the Provider screen, highlight "Setup" and press the wheel. The following Setup screen will appear.

	Back		
	Mode BiLevel CPAP		
	IPAP (EPAP) - 25.0		
	EPAP 4.0 - (IPAP)		
	CPAP pres 4.0 - 20.0		
	Flex type None Bi-Flex / C-Flex		
	Flex 1 2 3		
	Rise time 0 1 2 3		
	Tubing type lock on off		
	Tubing type 15 22		
٩	SYSTEM ONE resistance 0 X1 X2 X3 X4 X5		
Setup	Lock SYSTEM ONE on off		
Ň	Ramp time 0:00 - 0:45		
	Ramp start 4.0 - (EPAP / CPAP pres)		
	SYSTEM ONE humidification on off		
	Humidifier 0 1 2 3 4 5		
	Auto on off		
	Auto off on off		
	Mask alert on off		
	Humidifier LED Backlight on off		
	Show AHI/leak/PB on off		
	Language EN ES		
	Back		

Setup Screen

Note: The screen will only show 4 lines at a time. As you rotate the Wheel to toggle over different options the screen will slide up and down accordingly. If the text is too long to completely fit on the screen, it will scroll horizontally across the screen when highlighted.

• Mode - This screen displays the therapy mode setting. You can select Bi-level therapy or CPAP therapy (if available on your device). Bi-level therapy provides one level of output pressure during EPAP (Expiratory Positive Airway Pressure) and a second higher level during IPAP (Inspiratory Positive Airway Pressure). CPAP therapy provides one level of output pressure for both the inspiratory and expiratory breathing phases.

Note: The menu options will vary between the various modes.

• **IPAP** - This screen allows you to modify the IPAP setting. The initial default setting is 20 cm H₂O. You can adjust the setting from the EPAP setting to 25 cm H₂O.

Note: This screen only displays if Bi-level therapy is enabled.

• **EPAP** - This screen allows you to modify the EPAP setting. The initial default setting is 4 cm H_2O . You can adjust the setting from 4 cm H_2O to the IPAP setting.

Note: This screen only displays if Bi-level therapy is enabled.

• **CPAP pres** - If available on your device, this screen displays the current CPAP pressure setting. You can adjust the setting from 4 cm H₂O to 20 cm H₂O.

Note: This screen only displays if CPAP therapy is enabled.

- Flex type This screen displays the comfort mode setting and will have different options depending on the therapy mode.
 - If the device is in Bi-level mode, you can select None or Bi-Flex.
 - If the device is in CPAP mode, you can select None or C-Flex.
- Flex You can modify the Flex setting on this screen. The Flex comfort feature allows you to adjust the level of air pressure relief that the patient feels when exhaling during therapy. The setting of "1" provides a small amount of pressure relief, with higher numbers providing additional relief.

Note: The patient also has access to this setting, if Flex is enabled.

- **Rise time** Rise time is the time it takes for the device to change from EPAP to IPAP. This screen allows you to adjust the rise time so you can find the desired setting. This is only available if Flex has been disabled and the device is in Bi-level mode.
 - 0 (off) reduces the Rise Time feature to the lowest setting (off = 150 msec).
 - 1 sets Rise Time to 1 (200 msec).
 - 2 sets Rise Time to 2 (300 msec).
 - 3 sets Rise Time to 3 (400 msec).

Note: The patient also has access to this setting, if Rise time is enabled.

• **Tubing type lock** - If available on your device, this enables you to lock the Tubing type setting if you do not want the patient to change it.

Note: If you lock this setting, the device defaults to a setting of 22, and the patient will not see the Tubing type setting.

- **Tubing type** If available on your device, this setting allows you to select the correct size diameter tubing that you are using with the device. You can choose either (22) for the Respironics 22 mm tubing, or (15) for the optional Respironics 15 mm tubing.
- SYSTEM ONE resistance (+ →) This setting allows you to adjust the level of air pressure relief based on the specific Respironics mask. Each Respironics mask may have a "System One" resistance control setting. System One resistance compensation can be turned off by choosing the setting "0".

Note: The patient also has access to this setting, if Lock SYSTEM ONE is off.

• Lock SYSTEM ONE (K - a) - This enables you to lock the "System One" resistance control setting if you do not want the patient to change it.

Note: If you lock this setting, the patient will see a "lock" icon next to the setting.

• **Ramp time** - This enables you to modify the Ramp time setting in 5 minute increments. The range for this setting is 0 to 45 minutes.

• If in Bi-level mode, the device increases the EPAP pressure from the value set on the Ramp Starting Pressure screen to the EPAP pressure setting over the length of time specified here.

• If in CPAP mode, the device increases the CPAP pressure from the value set on the Ramp Starting Pressure screen to the CPAP pressure setting over the length of time specified here.

Note: If the EPAP pressure (if in Bi-level mode) or CPAP pressure (if in CPAP mode) is set to 4 (the minimum setting), this screen will not display.

• Ramp start - You can increase or decrease the ramp starting pressure in 0.5 cm H₂O increments.

Note: This screen will not display if Ramp time has been set to zero.

Note: This screen will not display if the EPAP pressure (if in Bi-level mode) or CPAP pressure (if in CPAP mode) is set to 4 cm H₂O.

Note: If the ramp starting pressure is set higher than the EPAP pressure (if in Bi-level mode) or CPAP pressure (if in CPAP mode), the ramp starting pressure will be decreased automatically by the device to match the EPAP or CPAP pressure.

- SYSTEM ONE humidification System One humidity control maintains a consistent mask humidity by monitoring and adjusting for changes in room temperature and room humidity. You can enable or disable this feature. If the System One humidity control has been disabled, the classic style of basic temperature controlled heated humidification will be used. This will only display if the humidifier is attached.
- Humidifier This setting allows you to choose the desired humidity setting: 0, 1, 2, 3, 4 or 5. If the System One humidity control has been disabled, the classic style of basic temperature controlled heated humidification will be used and the display will show: 0, C1, C2, C3, C4 or C5 for these settings. This will only display if the humidifier is attached. Please refer to the humidifier manual if using a humidifier.
- Auto on You can enable or disable this feature if you want the device to automatically turn the airflow on whenever the patient applies the interface (mask) to their airway.
- Auto off You can enable or disable this feature if you want the device to automatically turn the airflow off whenever the patient removes the interface (mask) from their airway.
- Mask alert You can enable or disable the mask alert setting. If this feature is enabled, the mask alert will appear on the display screen when a significant mask leak is detected, and an audible alert will sound.
- Humidifier LED Backlight (Ramp Backlight) You can enable or disable the LED backlight for the humidifier number settings and Ramp button on the device.

Note: If the humidifier is not attached, this feature will display as "Ramp Backlight" and control the LED backlight for the Ramp button only.

Note: If the Humidifier LED Backlight is enabled or disabled, the humidifier icon will always remains on (if humidifier is attached and heat is being applied), but will dim after 30 seconds of inactivity.

- Show AHI/leak/PB You can select whether or not the Apnea/Hypopnea index, System Leak averages, and Periodic Breathing averages are displayed on the Patient Info screens. "1" turns this option "on" and "0" turns this option "off".
- Language This feature allows you to choose which language to display on the interface. You can choose English (EN) or Spanish (ES).

Info Screen

From the Provider screen, highlight "Info" and press the wheel. The following Info screen will appear.



Info Screen

Note: The screen will only show 4 lines at a time. As you rotate the Wheel to toggle over different options the screen will slide up and down accordingly.

- **Phone-in** This screen displays the total therapy hours for the device, the total blower hours, and the total number of days used when the sessions were greater than 4 hours since the device was last reset. This screen also displays a compliance check number you can use to validate that the data provided to you is the data taken from this screen.
- Compliance VIC (Visual Inspection Check) This screen displays the start day and the total number of days used when the sessions were greater than 4 hours. This screen also displays a check code number you can use to validate that the data provided to you is the data taken from this screen.
- **Therapy hours** The device is capable of recognizing the difference between the time the patient is actually receiving therapy and the time when the blower is simply running. This screen displays the average amount of time the patient is actually receiving therapy on the device over a 7 day and 30 day time frame (provided the device has at least 7 or 30 days of data respectively). If the device has only 5 days of data to use for the calculation, the 5 day average value will be seen under the 7 day display.
- Blower hours This screen displays the number of hours that the blower has been active over the life of the device.
- Days > 4 This screen displays the cumulative number of device therapy sessions that exceeded 4 hours over a 7 day and 30 day time frame.
- Large leak During any given night, the device recognizes the percentage of time the patient was experiencing what it deemed to be a large leak. Large leak is defined as the level of leak that is so large, it is no longer possible to determine respiratory events with statistical accuracy. This screen displays the average of these individual nightly values of percentage of time in large leak over a 7 day and 30 day time frame (provided the device has at least 7 or 30 days of data respectively). If the device has only 5 days of data to use for the calculation, the 5 day average value will be seen under the 7 day display.
- **AHI** The device accumulates individual Apnea/Hypopnea indices (AHI) for each session the patient used the device. This screen displays the average of these individual nightly AHI values over a 7 day and 30 day time frame (provided the device has at least 7 or 30 days of data respectively). If the device has only 5 days of data to use for the calculation, the 5 day average value will be seen under the 7 day display.
- **Periodic Breathing** During any given night, the device recognizes the percentage of time the patient was experiencing period breathing. This screen displays the average of these individual nightly values of periodic breathing over a 7 day and 30 day time frame (provided the device has at least 7 or 30 days of data respectively). If the device has only 5 days of data to use for the calculation, the 5 day average value will be seen under the 7 day display.
- Reset data This screen allows you to erase all 7 and 30 day averages, compliance data, therapy hours and patient information on the device. Make sure that "Reset data" is highlighted on the info screen. Press and hold both the control wheel and the ramp button for at least 5 seconds. The device will beep once signifying that the data has been reset. Note: Machine hours are not erased.
- Machine hours This screen displays the amount of time that the machine has been active over the life of the device. Note: Therapy hours and blower hours can be reset for new patients. Machine hours are not erased.

Bi-Flex Comfort Feature (Bi-level mode)

The device consists of a special comfort feature called Bi-Flex. When the device is in Bi-level with Bi-Flex mode, the Bi-Flex attribute adjusts therapy by inserting a small amount of pressure relief during the latter stages of inspiration and during active exhalation (the beginning part of exhalation). In the diagram, the bold lines represent Bi-Flex in comparison to the dashed line representing normal Bi-level therapy. Bi-Flex levels of 1, 2, or 3 progressively reflect increased pressure relief that will take place at the end of inspiration and at the beginning of expiration.

Note: The patient also has access to this setting, if Flex is enabled.

C-Flex Comfort Feature (CPAP mode, if available)

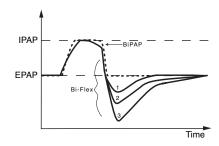
The device consists of a special comfort feature called C-Flex if CPAP therapy is enabled. When C-Flex is enabled, it enhances patient comfort by providing pressure relief during the expiratory phase of breathing. In the diagram, the dashed line represents normal CPAP therapy in comparison to the bold line representing C-Flex. C-Flex levels of 1, 2, or 3 progressively reflect increased pressure relief.

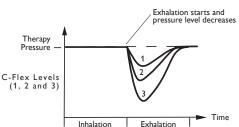
C-Flex pressure relief is determined by the C-Flex setting and the amount of patient flow. C-Flex returns to the set pressure by the end of exhalation, when the airway is most vulnerable to closure.

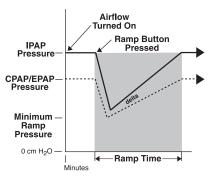
Note: The patient also has access to this setting, if Flex is enabled.

Ramp (Bi-level mode)

The device is equipped with a linear ramp feature that allows patients to reduce the pressure and then gradually increase (ramp) the pressure to the prescription pressure setting so they can fall asleep more comfortably. The diagram illustrates how the ramp feature works.

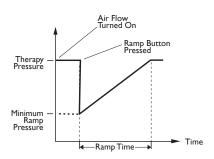






Linear Ramp

* The delta is defined as the lesser of 2 cm H2O and the difference between IPAP and EPAP pressure settings.



Ramp (CPAP mode, if available)

The device is equipped with a linear ramp feature that allows patients to reduce the pressure and then gradually increase (ramp) the pressure to the prescription pressure setting so they can fall asleep more comfortably. The diagram illustrates how the ramp feature works.

Event Definitions

Event	Definition
Obstructed Airway Apnea / Clear	An apnea is detected when there is an 80% reduction in airflow from baseline for at least 10 seconds or if there is no airflow detected for 10 seconds.
Airway Apnea Detection	During the apnea, one or more pressure test pulses are delivered by the device. The device evaluates the response of the patient to the test pulse(s) and assesses whether the apnea has occurred while the patient has a clear airway or an obstructed airway. The airway is determined to be clear if the pressure test pulse generates a significant amount of flow; otherwise the airway is determined to be obstructed.
RERA Detection	RERA (Respiratory effort-related arousal) is defined as an arousal from sleep that follows a 10 second or longer sequence of breaths that are characterized by increasing respiratory effort, but which does not meet criteria for an apnea or hypopnea. Snoring, though usually associated with this condition need not be present. The RERA algorithm monitors for a sequence of breaths that exhibit both a subtle reduction in airflow and progressive flow limitation. If this breath sequence is terminated by a sudden increase in airflow along with the absence of flow limitation, and the event does not meet the conditions for an apnea or hypopnea, a RERA is indicated.
Periodic Breathing	A persistent waning and waxing breathing pattern which repeats itself between 30 and 100 seconds. The nadir of the breathing pattern is characterized by at least a 40% reduction in airflow from an established baseline flow. The pattern must be present for several minutes before it can be identified as periodic breathing.
	No therapy adjustments are made in response to periodic breathing.
Flow Limitation Detection	The device looks for relative changes in the peak, flatness, roundness, or shape (skewness) of the inspiratory portion of the airflow waveform. These changes are observed both over a short period of time (groups of 4 breaths) and over a long period of time (several minutes). Statistical measures are used to help minimize false event detection while allowing the device to be sensitive to even small changes.
Hypopnea Detection	A hypopnea is detected when there is an approximately 40% reduction in airflow from baseline for at least 10 seconds.
Snore Detection	Vibratory snore is detected when a specific frequency is detected during the inspiratory portion of the patient's breath.Vibratory snore is disabled at pressures greater than 16 cm H ₂ O.

The BiPAP Pro monitors breathing and detects apneas and hypopneas.

Cleaning for Multiple Users

WARNING: If you are using the device on multiple users, discard and replace the bacteria filter each time the device is used on a different person.

If you are using the device on multiple users, complete the following steps to clean the device before each new user.

- 1. Unplug the device before cleaning.
- 2. Clean the outside of the device only. Use a cloth with one of the following cleaning agents to clean the exterior of the device:
 - Mild Detergent
 - 70% Isopropyl Alcohol
 - DisCide Towelettes
 - 10% Chlorine Bleach solution
- 3. Allow the device to dry completely before plugging in the power cord.

Verifying the Pressure

WARNING: If the device fails to perform within the stated specifications, have the system serviced by a qualified Respironics-approved service facility.

If part of your patient setup procedure is to verify actual pressure with a manometer, please use the following instructions to ensure that the device is functioning properly. You will need the following equipment to verify the pressure:

Respironics Pressure Calibration Kit includes:

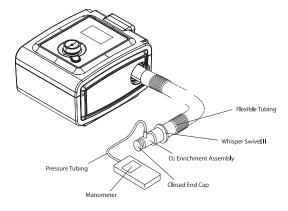
- Respironics Whisper Swivel II
- Respironics O₂ Enrichment Final Assembly
- Closed end cap
- Respironics flexible tubing
- Pressure tubing
- Respironics Digital Manometer or equivalent Minimum Specifications:
 - 0 25 cm H₂O (or better)
 - ± 0.3 cm H₂O accuracy
 - ±0.1 cm H₂O resolution
- Foam filter

To verify the pressure, complete the following steps:

- 1. Install the foam filter into the back of the device.
- 2. With the device unplugged, connect the system as illustrated in the diagram.
- 3. Turn the manometer on. If it does not display a reading of zero, adjust the manometer to calibrate it. If the manometer has variable settings for devices, set it to cm H_2O .
- 4. Supply power to the device then place the device in provider mode.
- 5. Set the therapy parameters according to the patient specific data.
- 6. Set the device to the specific pressure value for the patient.
- 7. Verify that the pressure setting matches the pressure displayed on the manometer. If the pressure setting does not match the measured value for the device, contact Respironics or an authorized service center to have the device serviced.

Note: Output pressures may vary at local altitude and barometric pressure. Because of these factors, devices may slightly vary in output pressure over the range of the altitude settings.

8. Set up the remaining parameters and exit provider mode. The unit is ready for patient use.



EMC Information

Guidance and Manufacturer's Declaration - Electromagnetic Emissions – This device is intended for use in the electromagnetic environment specified below. The user of this device should make sure it is used in such an environment.

Emissions Test	Compliance	Electromagnetic Environment - Guidance
RF emissions CISPR 11	Group 1	The device uses RF energy only for its internal function. Therefore, its RF emissions are very low and are not likely to cause any interference in nearby electronic equipment.
RF emissions CISPR 11	Class B	The device is suitable for use in all establishments, including domestic establishments and those directly connected to the public low-voltage power supply network.
Harmonic emissions IEC 61000-3-2	Class A	
Voltage fluctuations/Flicker emissions IEC 61000-3-3	Complies	

Guidance and Manufacturer's Declaration - Electromagnetic Immunity – This device is intended for use in the electromagnetic environment specified below. The user of this device should make sure it is used in such an environment.

Immunity Test	IEC 60601 Test Level	Compliance Level	Electromagnetic Environment - Guidance	
Electrostatic Discharge (ESD)	±6 kV contact	±6 kV contact	Floors should be wood, concrete or ceramic tile. If floors are covered with synthetic material, the	
IEC 61000-4-2	±8 kV air	±8 kV air	relative humidity should be at least 30%.	
Electrical fast Transient/burst	±2 kV for power supply lines	±2 kV for supply mains	Mains power quality should be that of a typical home or hospital environment.	
	±1 kV for input-output lines	±1 kV for input/output lines	nome of nospital environment.	
IEC 61000-4-4				
Surge IEC 61000-4-5	±1 kV differential mode	±1 kV differential mode	Mains power quality should be that of a typical home or hospital environment.	
	±2 kV common mode	±2 kV for common mode		
Voltage dips, short interruptions and voltage variations on power supply input lines IEC 61000-4-11	$\begin{array}{c} <5\% \ U_{\tau} \\ (>95\% \ dip \ in \ U_{\tau}) \ for \\ 0.5 \ cycle \\ 40\% \ U_{\tau} \\ (60\% \ dip \ in \ U_{\tau}) \ for \\ 5 \ cycles \\ 70\% \ U_{\tau} \ (30\% \ dip \ in \\ U_{\tau}) \ for \ 25 \ cycles \\ <5\% \ U_{\tau} \ (>95\% \ dip \ in \ U_{\tau}) \ for \\ 5 \ sec \end{array}$	$\begin{array}{c} <5\% \ U_{\tau} \\ (>95\% \ dip \ in \ U_{\tau}) \ for \\ 0.5 \ cycle \\ 40\% \ U_{\tau} \\ (60\% \ dip \ in \ U_{\tau}) \ for \ 5 \ cycles \\ 70\% \ U_{\tau} \ (30\% \ dip \ in \ U_{\tau}) \ for \\ 25 \ cycles \\ <5\% \ U_{\tau} \ (>95\% \ dip \ in \ U_{\tau}) \ for \\ 5 \ sec \end{array}$	Mains power quality should be that of a typical home or hospital environment. If the user of the device requires continued operation during power mains interruptions, it is recommended that the device be powered from an uninterruptible power supply or a battery.	
Power frequency (50/60 Hz) magnetic field IEC 61000-4-8	3 A/m	3 A/m	Power frequency magnetic fields should be at levels characteristic of a typical location in a typical hospital or home environment.	
NOTE: U ₁ is the a.c. mains voltage prior to application of the test level.				
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Guidance and Manufacturer's Declaration - Electromagnetic Immunity – This device is intended for use in the electromagnetic environment specified below. The user of this device should make sure it is used in such an environment.

Immunity Test	IEC 60601 TEST LEVEL	Compliance Level	Electromagnetic Environment -Guidance
Conducted RF IEC 61000-4-6 Radiated RF IEC 61000-4-3	3 Vrms 150 kHz to 80 MHz 3 V/m 80 MHz to 2.5 GHz	3 Vrms 3 V/m	Portable and mobile RF communications equipment should be used no closer to any part of the device, including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter. Recommended separation distance $d = 1.2 \sqrt{P}$ $d = 1.2 \sqrt{P}$ 80 MHz to 800 MHz $d = 2.3 \sqrt{P}$ 800 MHz to 2.5 GHz where P is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer and d is the recommended separation distance in meters (m). Field strengths from fixed RF transmitters, as determined by an electromagnetic site survey ^a , should be less than the compliance level in each frequency range. ^b

NOTE 1 At 80 MHz and 800 MHz, the higher frequency range applies.

NOTE 2 These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects, and people.

a Field strengths from fixed transmitters, such as base stations for radio (cellular/cordless) telephones and land mobile radios, amateur radio, AM and FM radio broadcast and TV broadcast cannot be predicted theoretically with accuracy. To assess the electromagnetic environment due to fixed RF transmitters, an electromagnetic site survey should be considered. If the measured field strength in the location in which the device is used exceeds the applicable RF compliance level above, the device should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as re-orienting or relocating the device.

b Over the frequency range 150 kHz to 80 MHz, the field strengths should be less than 3 V/m.

Recommended Separation Distances between Portable and Mobile RF Communications Equipment and This Device: The device is intended for use in an electromagnetic environment in which radiated RF disturbances are controlled. The customer or the user of this device can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and this device as recommended below, according to the maximum output power of the communications equipment.

Rated Maximum Power Output of Transmitter W	Separat	Separation Distance According to Frequency of Transmitter M			
	150 кНz то 80 MHz d = 1.2 √Р	80 MHz то 800 MHz d = 1.2 √Р	800 MHz то 2.5 GHz d = 2.3 √Р		
0.01	0.12	0.12	0.23		
0.1	0.38	0.38	0.73		
1	1.2	1.2	2.3		
10	3.8	3.8	7.3		
100	12	12	23		

For transmitters rated at a maximum output power not listed above, the recommended separation distance d in meters (m) can be estimated using the equation applicable to the frequency of the transmitter, where P is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer.

Note 1: At 80 MHz and 800 MHz, the separation distance for the higher frequency range applies.

Note 2: These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects, and people.



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