symbol®

PPT 4300 Series

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Radio Frequency Interference Information

Radio Frequency Interference Requirements

This device has been tested and found to comply with the limits for a Class A digital device pursuant to Part 15 of the Federal Communications Commissions Rules and Regulation. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense. However, there is no guarantee that interference will not occur in a particular installation. If the equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Re-orient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This Class A digital apparatus meets the requirements of the Canadian Interference-Causing Equipment Regulations.

- Cet appareil numérique de la Classe A respecte toutes les exigences du Reglement sur le Materiél Brouilleur du Canada.

General Information

1) The terminal must be powered by a power supply that meets SELV and limited power source limits in accordance with EN60950. Das gerät muß mit einen Netzteil betrieben werden das eine SELV Spannung und eine Spannung nach 2.11 EN60950 abgibt.

2) The terminal is not a workstation and has not been evaluated to the ergonomic standard. Das gerät ist keine Bildschirmarbeits platz und erfüllt nicht die Andforderungen der Ergonomic.

Radio Frequency Interference Requirements - Canada

This Class A digital apparatus meets the requirements of the Canadian Interference-Causing Equipment Regulations. Cet appareil numérique de la Classe A respecte toutes les exigences du Reglement sur le Materiél Brouilleur du Canada.

RF Devices

Symbol's RF products are designed to be compliant with the rules and regulations in the locations into which they are sold and will be labeled as required. The majority of Symbol's RF devices are type approved and do not require the user to obtain license or authorization before using the equipment. Any changes or modifications to Symbol Technologies equipment not expressly approved by Symbol Technologies could void the user's authority to operate the equipment.

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Introduction

The PPT 4300 is a hand-held, PC-compatible terminal that incorporates pen input and a QWERTY keyboard. The PPT 4340 model also uses radio frequency technology to allow wireless communication with an existing network. Throughout this Quick Reference, "PPT 43xx" refers to any 4300 Series terminal.

About This Guide

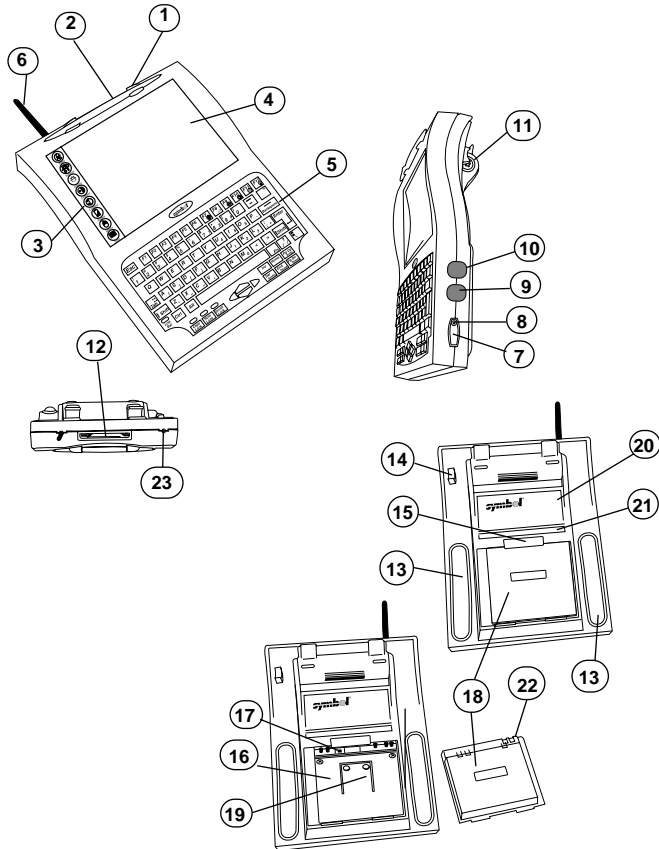This guide presents basic information on using the PPT 43xx terminal. It describes how to:

- *Starting the Terminal*
- *Starting Applications*
- *Using the Touch Screen*
- *Using the Keypad*
- *The Direct Access Panel*
- *Providing Power to the Terminal*
- *Re-charging a Battery Pack*

Note: *Before you start a PPT 43xx terminal, make sure the Run/Ship switch has been set to the Run position. See Parts of the PPT 43xx on page 5 for the exact location of the Run/Ship switch.*

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Parts of the PPT 43xx

The diagrams on this page show the parts of the PPT 43xx.

Parts of the PPT 43xx (cont'd)

1. Pen Holder
2. Pen
3. Direct Access Panel
4. Display Screen
5. Keypad
6. Antenna
7. IrDA Port
8. Force On Switch
9. DC Power Input
10. External 3.3v Keyboard Connector
11. RS232/TTL Interface Connector
12. PCMCIA slot
13. Rubber Foot
14. Support for RS232/TTL Interface plug
15. Battery Latch
16. Battery Well
17. Run/Ship Switch
18. NiMH Battery Pack
19. Battery Ejector
20. Regulatory Label
21. Serial Number Label
22. Battery Pack Contacts
23. Strap Mounting Boss

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Using the Power Icon

The Power icon is the top icon on the Direct Access Panel on the left side of the display. To select it, press it with the pen.

If the terminal is On: the Power icon places the terminal into Sleep mode (see Understanding the Power Save Modes on page 24). After a time in Sleep mode, the terminal shuts off.

If the terminal is in Sleep mode: the Power icon re-activates the session that was active when the terminal went to Sleep. Tapping the screen or a keypad key also activates the terminal.

If the terminal is Off: the Power icon starts the terminal.

Starting the Terminal

To start the terminal, press the Power icon with the pen. Hold the pen down until the terminal beeps and begins to boot (about one second).

If the terminal does not boot, check to make sure you have a charged battery, inserted correctly, and that the Run/Ship switch in the Battery Well is set to "Run". To force a terminal to re-boot, press the <**Ctrl**-**Alt**-**Del**> keys, or press the Force On switch in the IrDA port (see Parts of the PPT 43xx on page 5).

Starting Applications

After the terminal boots, one of the following appears:

- a *WINFRAME* window,
- a Terminal Emulator Host Choice List (shown on *page 8*), or
- a custom application, specific to your facility.

Follow your facility's procedures for logging in.

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```
╒═════════ Host Choice List Display ═════════╕
│                                            │
│ Application/Host Name  Host IP Address   Mode      Key Map    │
│ 1. ubiserver          192.75.16.1       VT220      standard   │
│ 2. zephyr             192.75.16.8       VT220      standard   │
│ 3. Library of Congress140.147.254.3     IBM3270    3270 custom│
│                                            │
│                                            │
│                                            │
│                                            │
│                                            │
│                                            │
│ Directions:• Press the number or letter associated with the host,│
│            • use arrow keys to highlight the host and press <Enter>,│
│            • tap the host with the pen, or  │
│            • press <Esc> to quit.           │
│                                            │
╘════════════════════════════════════════════╛
```

A Terminal Emulator Host Choice Screen

Turning the Terminal Off

Usually a terminal turns off when you end a session and log out. For details, see the table below. If you do not log out, and the terminal goes into Sleep mode, it turns itself off after a certain amount of time (see). Depending on how the host computer is set up, your *session* may or may not terminate, if you do not log out before the terminal goes to Sleep.

Session Type	How to Exit
Terminal Emulation	Follow your facility's procedures or press **<Shift-Alt-X>** to close a session. When all sessions are closed, press **<Esc>** to exit the Choice List and turn off the terminal.
Citrix *WINFRAME*	Logoff from the *WINFRAME* Windows session. Then select the Exit button on the *WINFRAME* DOS window.

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Session Type	How to Exit
DOS	Type 'off' and press <**Enter**>.

Using the Terminal
Using the Touch Screen

The PPT 43xx is designed to be used with a pen stylus. The pen acts as a mouse. The table below describes how the pen works in a windows session run on the terminal's Citrix® *WINFRAME*™ client. If you are running a terminal emulator or DOS application, the pen may be disabled, or may behave differently, depending on the application and the host configuration.

To:	Do This:
Move the pointer/cursor	Place the end of the pen onto the surface of the display. The arrow or cursor goes to where the pen is located.
Left click	Tap once with the pen. Do not tap too hard on the display.
Double click	Tap twice, quickly, with the pen.
Right click	Select the Mouse icon to turn the next pen tap into a right click. After a single or double right click, the pen tap automatically reverts to acting as a left mouse click.
Drag objects (Drag & Drop)	Place the pointer on the object that you wish to move (*e.g.*, on the Title Bar of a window). Without lifting the pen from the display, drag the tip of the pen to the new location for the object. Lift the pen to drop the object.

Note: If you lose your pen, DO NOT use anything that will scratch or mark the screen. Symbol can supply extra

pens for the terminal. Contact your Symbol Repre-sentative.

Using the Keypad

The PPT 43xx has an integral, 78-key QWERTY keypad. The keypad also includes an Fn key that allows access to a set of alternate functions when pressed together with another key. These functions include:

Fn-F7   Displays the terminal settings
Fn-F8   Activates the Pen Calibration utility
Fn-F9   Increases contrast
Fn-F10   Decreases contrast
Fn-F11   Changes LCD Display backlight brightness
Fn-F12   Turns the keyboard backlight on or off
Fn-PgUp   Print Screen
Fn-PgDn   Break
Fn-Del   System Request
Fn-End   Pause

Note than the **<Fn-PgUp>**, **<Fn-PgDn>**, **<Fn-Del>** and **<Fn-End>** keys may not trigger an action. Their functions depend on your host application and system.

Attaching an External Keyboard

The PPT 43xx has a port for connecting a Symbol-approved, low power PS/2-AT keyboard. See Parts of the PPT 43xx on page 5 for the location of the External Keyboard port. Do not use a keyboard that has not been approved for use by Symbol.

To activate the external keyboard, simply plug it into the External Keyboard port. The terminal's keypad remains active while the external keyboard is attached.

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Numeric Keypad

The keyboard incorporates a numeric keypad, using the symbols marked in small letters on the 7, 8, 9, 0, U, I, O, P, J, K, L, :, M and >. keys. To use the numeric keypad, press the NumLock key. When the Numlock key is on, the Numlock key lights up. Then press and hold the Fn key, and press the keypad keys to enter numbers (*e.g.*, Fn-J=1).

Your terminal may also be set into Quick Numeric Keypad Overlay mode, so that when <Numlock> is on, the numeric keypad works as a numeric keypad without the <Fn> key (*e.g.*, J=1). See the *Keyboard Options* section of the *PPT 4300 Product Reference Guide* for more information.

Numeric keypad

Fn key
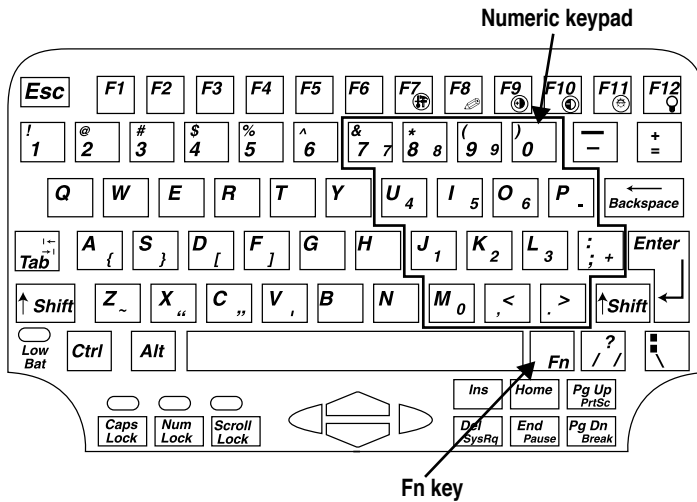
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Connecting and Using a PCMCIA Card

The PPT 43xx terminal has an expansion slot that may be used with a PCMCIA card (PC Card). A PC Card is a plug-in memory or I/O device that can be used in laptop computers and the PPT 43xx. The terminal must have appropriate drivers loaded to be able to use a PC Card. See your System Administrator for details.

To insert a PCMCIA Card:

1. Remove the rubber plug from the Expansion Slot at the top of the terminal.
2. Insert the PCMCIA Card into the Expansion Slot, connector edge first, with the top of the card facing upward. Press gently until the connector is fully seated.

For Memory PCMCIA Cards, you may either boot from the PCMCIA card (*i.e.*, insert the card and then boot the terminal), or boot the terminal first and then insert and use the PCMCIA card as a separate drive (*e.g.*, a D: drive). See your System Administrator for more information.

To remove a PCMCIA Card:

1. Look into the Expansion Slot at the top of the terminal, and press the square black button beside the card.
2. Pull out the PCMCIA Card.

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3. Replace the rubber plug for the Expansion Slot.
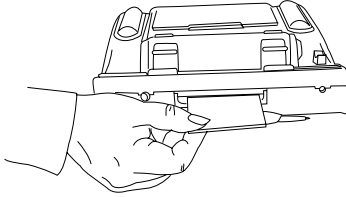
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The Direct Access Panel

The PPT 43xx has a Direct Access Panel, located on the left side of the display window. The Direct Access Panel allows you to control settings on the PPT 43xx. Except for the Power icon, it is not active until after the terminal has finished booting.

Note: The Scan icon is not currently active.

Power

Settings

Display

Contrast

Contrast

Battery

Mouse

Scan

← Direct Access Panel
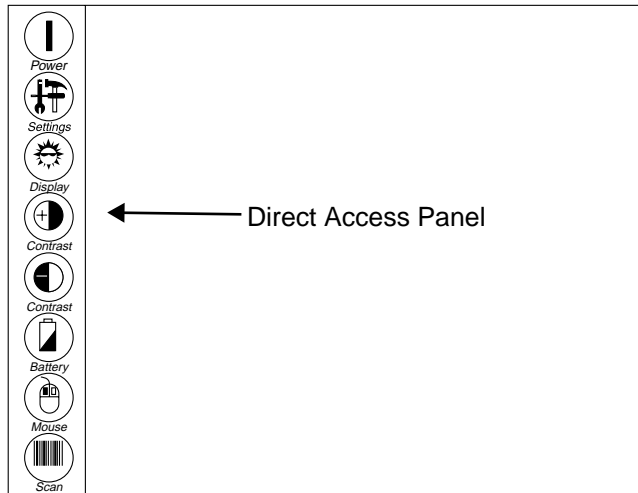
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To select an item from the Direct Access Panel, tap a Direct Access Panel icon gently with the pen.

Icon	What it does
Power	If the terminal is on, select this icon to place it into Sleep mode. After a number of minutes in Sleep mode, the terminal shuts itself off. *Your facility will set its own time limit for sending the terminal from Sleep mode to Off.* If the terminal is in Sleep mode, tap the screen or press a key on the keypad to reactivate the terminal. If the terminal is off, press this icon for one second to turn it on.
Settings	Displays the Terminal settings, such as IP Address, Terminal Name, Date, Time and serial number.
Display	Changes the level of brightness for the display. The brightness cycles through three different levels. You may also change the brightness by pressing <**Fn**-**F11**>.
Contrast	Increases the contrast of the display. You may also increase the contrast by pressing <**Fn**-**F9**>. **Note**: If you increase contrast too much, the screen goes dark.
Contrast	Decreases the contrast of the display. You may also decrease contrast by pressing <**Fn**-**F10**>. **Note**: If you decrease contrast too much, the screen goes white.

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Icon	What it does
Battery	Displays Remaining Battery Life as a percentage.
Mouse	By default, tapping the display with the pen acts as a left mouse click. Tapping twice acts as a double click. To perform a right click, select the mouse icon. The next pen tap acts as a single or double right click. Then the pen returns to normal functioning.

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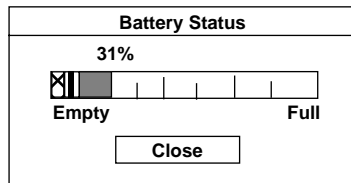
Providing Power to the Terminal

You can run a PPT 43xx terminal:

- from a rechargeable NiMH (Nickel Metal Hydride) battery pack, or
- by using the supplied DC Adapter plugged into a standard electrical outlet (see Using an External Power Source on page 23).

Checking the Current Battery Level

To check the current battery level:

1. Tap the Battery icon to display a Battery Status window.

2. When remaining battery life gets low, change the battery.

3. The Battery Status window closes automatically after a few seconds, but you may also close it by tapping the Close button with the pen, or by pressing <**Enter**>.

```
┌─────────────────────────────────┐
│         Battery Status          │
├─────────────────────────────────┤
│  31%                            │
│  ▨▮░│ │ │ │ │ │                │
│  Empty               Full       │
│         ┌───────────┐           │
│         │   Close   │           │
│         └───────────┘           │
└─────────────────────────────────┘
```

Low and Critical warning levels are indicated by yellow and red areas on the battery graph. When a Low or Critical warning appears, tap the message, or press <**Enter**> to make it disappear. Then replace the battery as soon as you can. See Reading Battery Warnings on page 18, for more information.

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Reading Battery Warnings

A fully charged battery lasts for approximately four hours of active use, with no power management in effect. The terminal provides warnings when the battery needs recharging. When the Battery Warning message appears on the screen, either change the battery, or end your session and turn the terminal off.

The Battery Low Warning appears when battery capacity falls to 8% or lower. When it appears, you have about 19 minutes of active battery life left. The message consists of a Battery Status window, framed in yellow. It stays for 8 seconds and then disappears, and reappears 15 seconds later. This continues until you tap the message or press **<Enter>** to acknowledge it.

The Battery Critical Warning appears when battery capacity falls to 2%. When it appears, you have less than 5 minutes of active battery life left. The message consists of a Battery Status window, framed in red. It stays for 8 seconds and then disappears, and reappears 15 seconds later. This continues until you tap the message or press **<Enter>** to acknowledge it.

If battery capacity falls below 1%, the terminal may turn itself off abruptly, at any time. If you had an active session with the host, and the terminal turns off, your session will be abruptly disconnected and you may lose unsaved work. The session on the host may or may not be closed (depending on the host).

Note: *Your facility may configure Battery Warnings differently. For example, the Battery Low and Battery Critical Warnings may appear at 5% and 1% of battery capacity, instead of 8% and 2%. See the PPT 4300 Series Product Reference Guide for more information on configuring the Battery Warnings.*
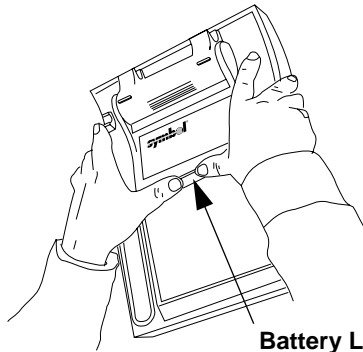
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Changing the Battery

Note: *For the first two to three days on a new terminal, end your session and turn the terminal off before you attempt to change the battery. This gives the swap battery time to fully charge.*

You can change the battery on a PPT 43xx terminal without logging out or losing your session. To do this:

1. Make sure you have a fully charged battery available and close at hand.
2. Turn the terminal display-side down, but do not rest it on a table. The table may cause keys to be pressed, causing input to an application.
3. Push up on the Battery Latch. The Ejector Spring pushes the battery up.


Battery Latch

4. Slide the discharged battery out of the compartment. When you remove the battery, the terminal automatically goes into Sleep mode. A swap battery inside the terminal

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supplies power and maintains your session for 15-30 seconds.

Note: *You may find it easier to remove the battery if you hold the terminal with the display facing you, and the back of the terminal in your hand. Then, push up on the Battery Latch, and allow the battery to slip out of the battery compartment.*

5. Place the bottom of a fully charged battery pack into the battery well. The tabs at the bottom of the battery fit into two slots at the bottom of the battery well.

6. Gently push the top into place until the Battery Latch clicks into place and holds the battery.
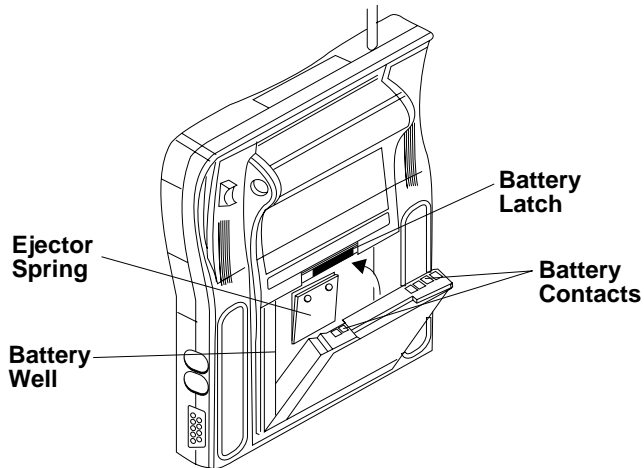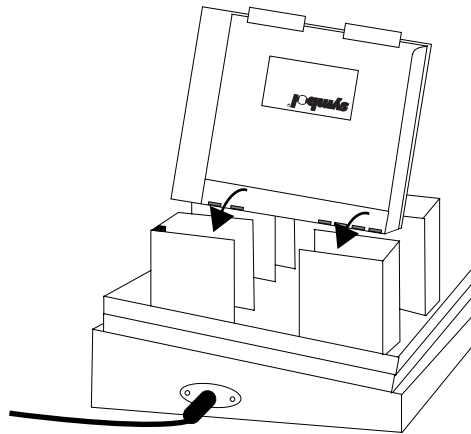

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Re-charging a Battery Pack

Before you use a PPT 43xx terminal, make sure its NiMH battery pack has been completely charged. As an option, Symbol supplies a Battery Charger that can charge up to four batteries at once. To re-charge a battery:

1. Make sure the charger is attached to a power supply. The green Power LED should be on.

2. Insert a battery into the battery charger as shown below. Each slot has two pins on one side, and one pin on the other. Place the side of the battery with two contacts into the 2-pin side of the slot. Never force a battery into the charger; batteries should slide in easily.

Note: *If you have just removed a battery from the charger, wait 10 - 15 seconds while the charger resets itself before inserting another battery into the same slot.*

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3. If you have inserted the battery correctly, the Yellow CHARGING LED comes on in the panel beside the battery slot to indicate that a battery is charging.

4. If the LED does not come on, take the battery out and then re-insert it, making sure that you are inserting it correctly.

5. A flashing green READY light appears when the battery is charged. Batteries recharge to full capacity within three hours.

Conditioning New Batteries

New batteries need to be conditioned before you use them. Conditioning ensures that a new battery can carry a full charge. To condition a new battery, insert it into the battery charger and press the Condition button on the panel beside the battery slot. The conditioning cycle takes three to six hours, and the READY light appears when conditioning is complete.

To extend battery life, repeat the conditioning cycle approximately once every two months.

Battery Rejection

If the red REJECTED indicator flashes, the battery is faulty or damaged. Remove it from the battery charger and dispose of it properly. If the battery is still within its warranty period, contact your local Symbol Representative or the Symbol Support Center for replacement information.
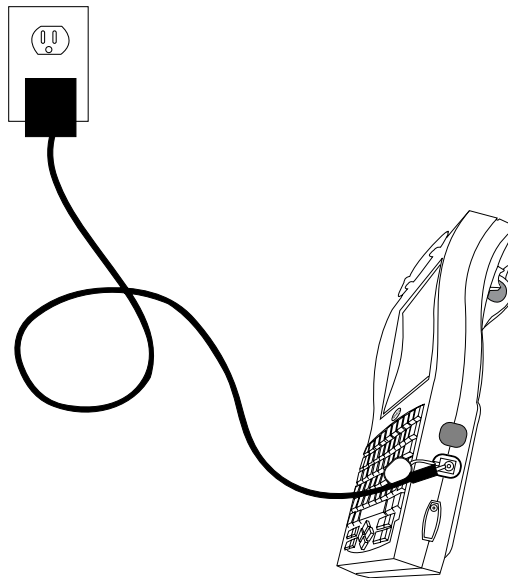
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Using an External Power Source

You can connect the PPT 43xx to a DC adapter so that it can be powered from a standard electrical outlet. Note that the Power Management features are disabled when the terminal is running from the DC adapter. To connect power:

1. Connect the DC Adapter plug into the DC Power Input on the right side of the terminal.

Note: *Plug the other end of the Adapter into the electrical outlet. Use only a Symbol-approved DC adapter.*

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Understanding the Power Save Modes

When the terminal is not in active use, it can use Power Save Modes to decrease the drain on the battery. Note that your facility may deactivate some modes. Power Save Modes include:

Mode	Description
Normal	The terminal is in full active use, with all components working at full power. After 17 - 76 seconds of inactivity (no input from keyboard or pen), the terminal enters Doze mode. Use the Control Panel to configure the amount of time before the terminal enters Doze mode.
Doze	In Doze mode, the session freezes and the screen dims. The session resumes and the screen returns to normal when you use the keyboard or pen. The terminal stays in Doze mode for 4 seconds to 17 minutes, depending on the Control Panel setting. Then it enters Sleep mode. If the host disconnects from your session while the terminal is in Doze mode, you must log in again.
Sleep	In Sleep mode, the session freezes and the screen display turns off. The screen returns to normal when you use the keyboard or pen. The terminal stays in Sleep mode for 1 to 272 minutes, depending on the Control Panel setting. The host may disconnect from your session when the terminal is Sleeping. If this happens, you must log in again. Note: If the battery is removed or falls to critically low levels (<1%), the terminal places itself into Sleep mode for up to 60 seconds, and then switches off.

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Mode	Description
Off	After 1 to 272 minutes in Sleep mode, the terminal switches off. To reboot the terminal, press the Power icon. If you have not saved your work, you may lose it when the terminal turns off.

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Service Information

Before you use a terminal, it must be configured to operate in your facility's network and run your applications.

If you have a problem with running your terminal or using your equipment, contact your facility's Technical or Systems Support. If there is a problem with the equipment, they will contact the Symbol Support Center:

1-800-653-5350

Outside North America, contact your local Symbol representative.
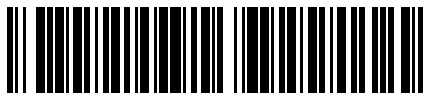
Note: *Before returning the PPT 4300, you must complete the Return Equipment Checklist form, which you will find in the back of your PPT 4300 Product Reference Guide, p/n 70-31471-01. If you cannot find this form, you can also request one from the Symbol Support Center, at the phone number listed above. This checklist is a federally mandated Occupational Safety and Health Adminstration (OSHA) form, which must be completed when returning equipment which may have come in contact with bloodborne pathogens.*

Symbol products are warranted against defects in workmanship and materials for a period of one year from the date of shipment, provided that the product remains unmodified and is operated under normal and proper conditions.
This warranty is limited to repair or replacement at Symbol's option, with reasonable promptness after being returned to Symbol by a carrier selected and paid for by the customer. These provisions do not prolong the original warranty term for any product which has been repaired or replaced by Symbol.
This warranty applies to the original owner and does not extend to any product which has been subject to misuse, neglect, accidental damage, unauthorized repair or tampering. Preventive maintenance activities are not covered by warranty.

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