

PANTHER[™] LS8EQ

HAND-HELD THERMAL TRANSFER PRINTER

Operator's Manual

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SECTION 1

GETTING STARTED

INTRODUCTION & SAFE OPERATION

Congratulations on your purchase of the *PANTHER*[™] LS8EQ Hand-Held Thermal Transfer Printer. The versatile *PANTHER*[™] LS8EQ is designed to meet the demanding printing requirements of electrical and network users. The LS8EQ prints high quality industrial labels on a wide variety of materials for electrical and network applications, such as wire/cable, components, safety, and facility identification. It is the ideal labeling tool for electricians, installers, maintenance personnel, and contractors. As you will read throughout this operator's manual, the *PANTHER*[™] LS8EQ has been designed with many time saving features that will allow you to maximize your labeling productivity.

This manual will guide you step by step through the set-up, operation, and troubleshooting of the *PANTHER*[™] LS8EQ Hand-held Thermal Transfer Printer. If you have problems not covered herein, contact your local Panduit Sales Representative, call Panduit Technical Support at 866-871-4571, or call Panduit Customer Service at 800-777-3300. More information is also available on the web at www.panduit.com.

SAFE OPERATION PRACTICES

The following general safety practices supplement the specific warnings and cautions depicted elsewhere in this manual. They are recommended precautions that must be understood and applied during the operation and maintenance of this printer.

Do Not Operate In An Explosive Environment

Do not operate the printer in the presence of flammable gases or fumes. Operation of this printer in such an environment constitutes a definite safety hazard.

Do Not Operate In Wet Or Damp Areas

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Do not operate this printer in wet or damp areas. Operation of the printer in such an environment constitutes a definite safety hazard.

Do Not Substitute Parts Or Modify Equipment

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Because of the danger of introducing additional hazards, do not install substitute parts or perform an unauthorized modification to the printer or its accessories. The proper components for service and repair may be obtained from Panduit Corp.

WARNING:



When the printer has been in use for an extended period of time, the printer motor may become hot. DO NOT touch the printer motor with bare hands.

Information to USA Users

NOTE: This printer has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of FCC rules. These limits are designed to provide reasonable protection against harmful interference when the printer is operated in a commercial environment. This printer generates, uses, and can radiate radio frequency energy and, if not used in accordance with this instruction manual, may cause harmful interference to radio communications. Operation of this printer in a residential area is likely to cause interference in which case the user will be required to correct the interference at his own expense.

Information to Canadian Users

This digital apparatus does not exceed Class A limits for radio noise emissions for digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

Le present appareil numerique n'emet pas de bruits radioelectriques depassant les limites applicables aux appareils numeriques de la class A prescrites dans le Reglement sur le brouillage radioelectrique edicte par le ministere des Communications du Canada.

It is possible that infrequent electrical phenomena (static discharge, power line fluctuations) may cause printer function to be temporarily interrupted. In this case, the printer will usually reset itself. In extreme cases, the user should remove then re-apply power (batteries or AC adapter).

INTRODUCTION & SAFE OPERATION

Information to Korean Users

A급 기기 (업무용 방송통신기자재) Class A Equipment(Industrial Broadcasting & Communication Equipment)

이 기기는 업무용(A급) 전자파적합기기로서 판 매자 또는 사용자는 이 점을 주의하시기 바라 며, 가정외의 지역에서 사용하는 것을 목적으로 합니다.

This equipment is **Industrial (Class A)** electromagnetic wave suitability equipment and seller or user should take notice of it, and this equipment is to be used in the places except for home.

Printer Power Supply

The *PANTHER*[™] LS8EQ is supplied with 6 AA alkaline batteries. These batteries are not re-chargeable. After the batteries have surpassed their useful life, they must be disposed of properly and replaced.

An optional AC adapter is also available for use with the *PANTHER*[™] LS8EQ. The AC adapter is available in different versions that are suitable for use in many regions of the world, including North America, Australia, China, Continental Europe, and the United Kingdom.

INTRODUCTION & SAFE OPERATION

Certifications

The *PANTHER*[™] LS8EQ Hand-Held Thermal Transfer Printer meets the requirements of the following standards:

- FCC Part 15 Class A
- CE
- European Directive 2002/95/EC on the Restriction of Hazardous Substances (RoHS)
- KC Mark

Additional Reference Materials

A Quick Reference Card, which summarizes the most important and frequently used features of the *PANTHER*[™] LS8EQ is included with your printer. The Quick Reference Card has several label exercises to help familiarize you with LS8EQ functions. Should you misplace the quick reference card, you may download another copy from the web at www.panduit.com.

All of the detailed product ordering information is included in the comprehensive LS8EQ Product Bulletin. The bulletin is available from Panduit Customer Service (800-777-3300) or online at www.panduit.com.

GENERAL DESCRIPTION

PANTHER™ LS8EQ Hand-Held Thermal Transfer Printer



P1™ Label Cassette System



GENERAL DESCRIPTION

Print Technology

The *PANTHERTM* LS8EQ prints labels using thermal transfer printing technology. The print head melts ink contained on a thin web of ribbon material allowing the ink to transfer to the label material. The print head operates at a resolution of 203 dots per inch (dpi).

Smart Label Cassette

*P*1[™] label cassettes are automatically detected by the *PANTHER*[™] LS8EQ printer upon insertion. The LS8EQ printer automatically adjusts its settings according to the label cassette that is installed. This process saves you the time and effort normally required to begin printing. With the LS8EQ, simply install the label cassette and lock the print head latch. Now you are ready to begin printing. *P*1[™] label cassettes have an embedded memory device designed to improve your labeling productivity. The device maintains an accurate count of the remaining labels in the cassette. The device also recalls the last label design used. When you take a label cassette out of the printer, your last label design goes with the cassette. This is very useful for sharing files between more than one user or printer.

Label Cutter

The *PANTHER*[™] LS8EQ has a manually operated cutter blade. Press and release the cutter button in order to cut your label. The cutter button has two possible settings: **Full Cut and Partial Cut**.

Full Cut is used to cut entirely across a label and its liner. This is the familiar cutting style used on other hand-held printers. Partial Cut is used to leave a very small area of the label liner still attached even after cutting. This is an innovative adaptation to label cutting that allows you to avoid the frustration of searching for the correct label within a disorganized pile or having to use scissors. After using the partial cut setting, you will take a strand of labels to a job and then separate them as needed. In this way, your labels remain in the order that they were printed.

The Cut Pause feature allows you to cut between labels during a print job. When Cut Pause is turned on, the printer will stop printing and allow you to cut the label. After cutting, the printer will resume printing automatically. The Cut Pause feature is turned on or off within the Setup menu.

Carrying Case

The *PANTHER*[™] LS8EQ has a custom protective carrying case constructed of durable plastic material. The case provides a convenient method of transporting the printer, label cassettes, and accessories to and from a job site.

PC KIT

The PC KIT includes a CD-ROM with *PanTherLink*[™] software and a USB cable. The PC KIT is used to communicate between a computer and the *PaNTHER*[™] LS8EQ printer. This provides the ability to import data, upgrade the printer operating system, and print labels from Panduit Easy-Mark Labeling Software.

LOADING BATTERIES AND LABEL CASSETTE

Loading the Batteries

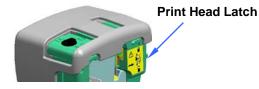
- 1. Remove the battery door from the back of the *PANTHER*[™] LS8EQ printer. If the impact bumper is installed on the printer, you will have to move it away from the battery door first.
- 2. Install the 6 AA batteries according to the molded indicators within the battery compartment.
- 3. Reattach the battery door. Move the impact bumper back over the battery door if necessary.

Observe Correct Polarity When Installing Batteries

Replace All Six Batteries At The Same Time

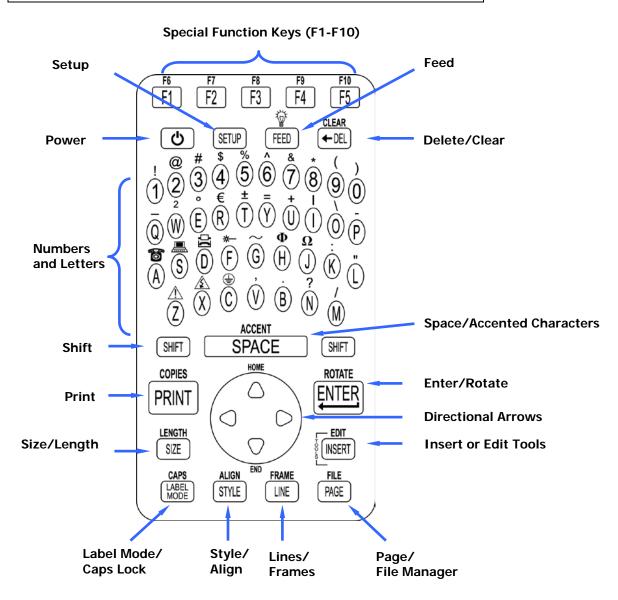
Loading a Label Cassette

- 1. Remove the cassette door from the back of the *PANTHER™* LS8EQ printer.
- 2. Install a label cassette. Press firmly to lock the cassette in place. Do not remove the raised white tab from the cassette. This tab is used to assist with removal of the cassette from the LS8EQ printer.
- 3. Lock the print head latch.



- 4. Reattach the cassette door.
 - NOTE: To uninstall a label cassette:
 - 1. Unlock the print head latch.
 - 2. Remove the cassette door.
 - 3. Remove the cassette. Use the white removal tab on the cassette for assistance.
 - 4. Reattach the cassette door.

KEYBOARD FUNCTIONS



KEYBOARD FUNCTIONS

Basic Keyboard Functions

- POWER Turn printer on or off
- SETUP Access the Set Up menu
- FEED Feed labels
- Turn display backlight on or off.
- DELETE Erase characters and tools
- CLEAR Clear the entire screen
- SHIFT Access secondary functions on keypad
- SPACE Add a space to a label
- ACCENT Insert an international character
- PRINT Print labels
- COPIES Print multiple copies
- ENTER Move to the next line or accept menu changes
- ROTATE Rotate the label to 0, 90, 180, or 270 degrees
- HOME Move to home position on screen
- END Move to end position on screen
- SIZE Select the text font size
- LENGTH Set the length of continuous label media
- INSERT Insert a new tool
- EDIT Edit an existing tool
- LABEL MODE Change the label mode
- CAPS Turn caps lock on or off
- STYLE Select the text font style
- ALIGN Change the label justification
- LINE Add vertical and horizontal lines to a label
- FRAME Add a frame around a label
- PAGE Move to another page
- FILE Access the file manager

SECTION 2

WORKING WITH THE PANTHER[™] LS8EQ

USING THE PANTHER [™] LS8EQ

The Home Screen

The home screen is where you enter and edits text or place label items known as tools. The home screen is also where you print labels. The home screen has several different indicators, including:

INDICATOR	ICON	DESCRIPTION
Caps Lock	ABC	Indicates if caps lock is on or off.
Shift Function	★ or ★★	Indicates if the shift key has been pressed.
Label Mode	MODE	Indicates current label mode.
Text Size	5128	Indicates the text size for the current line.
Text Style	<u>А</u> В <u>В</u>	Indicates the text style for the current cursor position. Available styles include Normal (no icon), Normal + Underline, Bold, and Bold + Underline.
Text Line	1:	Indicates the current line.
Page	1:9	Indicates the current page. There are 9 total pages.
Vertical or Horizontal Line	2	Indicates that a label has one or more dividing lines selected.
Frame		Indicates that a label has a frame selected.
Low Battery	1	Indicates that battery voltage is low and that batteries need replacing.

The Tools Menu

The tool menu includes serializations, symbols, data lists, bar codes, and date/time stamps. These items are placed on the home screen. The tool menu is accessed by pressing the Insert Tools key.

Tool Icons

The following icons represent the available tools:

- 1²³ Serialization
- 🖬 Symbol
- 🔳 Data List
- III Barcode
- I Date Stamp
- G Time Stamp

CREATING TEXT

Creating Text

After turning on the $PANTHER^{TM}$ LS8EQ, the home screen will appear. The home screen is also the text editor.

To create text on the home screen, simply begin pressing the alphabetic or numeric keys on the keypad. Text will be entered at the position of the cursor.

The cursor is indicated by a vertical line. To insert blank spaces, press the

key. Press to move down to the next line. Use the directional arrow keys to move the cursor up, down, right, or left. The home screen has a maximum of 8 lines on which to place text. The home screen also has 9 separate pages on which to place text. The current page number is indicated in the bottom right corner of the home screen.

Inserting Text

To insert characters on a line, move the cursor to any position and begin typing. The character will be inserted at the cursor position.

Deleting Text

To remove characters from the screen, press the \bigcirc key. Each press of the \bigcirc key will delete one character at a time immediately to the left of the cursor. Pressing and holding the \bigcirc key will delete characters more rapidly. The Clear function can also be used to delete all text and reset all formats at once.

Text Size

The *PANTHER*TM LS8EQ has 10 different font sizes available for creating text. The font sizes range from 4 point to 72 point. To change the font size, press the SIZE key. Then scroll up or down with the directional arrows. Press ENTER To select a size. The new size will be displayed at the top of the home screen. Each $P1^{TM}$ label cassette has a default font size. The default font size is automatically chosen when inserting a new cassette. The text size can be different on each of the 8 available lines of text on each page.

CREATING TEXT

Text Style

The *PANTHER*[™] LS8EQ has four different text styles: Normal, Bold, Normal + Underline, and Bold + Underline. To change the text style, press the STYLE key. The new text style can be applied to all characters on a label or just to characters inserted after the change. Text style can be different for each individual text character on a line.

Text Rotation

Label legends may be rotated to 0, 90, 180, and 270 degrees in the clockwise direction. The page shaped icon in the lower right hand corner of the display indicates the current rotation. To change the rotation, press the rotation were stated with the press the rotation. To change the rotation, press the rotation were stated with the press the rotation. To change the rotation arrows to scroll to the desired rotation and press ENTER. The rotation of the legend can be different on each of the 9 pages of a label.

Text Justification

Label legends may be horizontally and vertically justified by pressing the wey and then pressing ALIGN. The horizontal justification options include left justified, center justified, and right justified. The vertical justification options include top justified, center justified, and bottom justified. The character "A" inside of the page shaped icon in the lower right hand corner of the display indicates the current justification setting. The character "A" will move within the page shaped icon to indicate the current justification settings.

NOTE: Vertical justification is not allowed in wire marker mode.

Print Offsets

The printing location of label legends may be adjusted by using the Print Offsets

function. This function is accessed by pressing the \bigcirc key twice and then pressing ALIGN. The print offset function has three adjustments: TOP, BOTTOM, and LEFT. Use the up or down directional arrows to select the adjustment type. Then use the right or left directional arrows to make the adjustment.

Adjusting the TOP print offset moves the start of a label legend toward or away from the leading edge of the label. Adjusting the BOTTOM print offset moves the end of a label legend toward or away from the trailing edge of the label. Adjusting the LEFT print offset moves the label legend across the width of the label.

CREATING SERIALIZATIONS

¹²³

The Serialization Tool

The serialization tool is used to automatically number labels in a sequence. The sequence can be either numeric (1 to 999) or alphabetic (A to ZZZ). A serialization is defined by a start value, an end value, and a step value.

To correctly define a serialization, the end value must be larger than the start value **and** the start and end values must be both numeric or both alphabetic. (Numbers and letters cannot be used together when defining a particular serialization.)

The step value can be any number between 1 and 99.

Serializations can be combined with other label items, such as text, boxes, lines, symbols, etc. For example, to create a prefix or a suffix to a serialization, enter text immediately before or after the serialization on a line.

Serializations can be printed as text or as bar codes on a label.

Creating a Serialization

The serialization tool should be accessed from the home screen. To access the serialization tool:

- 1. Press the INSERT key to enter the tools menu.
- 2. Press the directional arrows to highlight the serialization tool.
- 3. Press the key to select the serialization tool.
- 4. Use the up or down directional arrow keys to select the serialization parameters: **Start, End,** or **Increment**.
- 5. Use the right or left directional arrow keys to set the values for **Start**, **End**, or **Increment**.
 - NOTE: Pressing the right directional arrow key will move the cursor to the current value of the selected parameter. For a new serialization, the start and end values will display an asterisk *. After entering a value, pressing will automatically move the cursor to the next parameter.
- 6. Repeat step 5 for each parameter.
- Press the key to accept the changes and to return to the home screen. Otherwise, press the DEL key to return to Tools menu without accepting changes.
- 8. On the home screen, the serialization tool icon **1^{2³**} will appear at the position of the cursor.

CREATING SERIALIZATIONS

More Serialization Parameters

The serialization tool includes more parameters on a second screen following the first screen. The second screen includes **Copies** and **Collate**. To access the second screen press the down directional arrow twice after **Increment**.

1. The **Copies** parameter determines the number of copies to print for the serialization. The **Copies** parameter can be set to any number from 1 to 99.

To change the **Copies** parameter, press the up or down directional arrow keys to highlight **Copies**.

Press the right directional arrow key to move the cursor to the current value of the Copies parameter. The Copies parameter will default to a value of 1. Enter the number of copies to print.

Press the key to accept the changes.

2. The **Collate** parameter determines whether or not the copies of the serialization items will be collated. The **Collate** parameter only works when more than one copy of a serialization is defined. The **Collate** parameter defaults to **No**.

If **No** is selected, then consecutive copies of the serialization items **will** be placed together. The result will resemble the following legend:

A01 A01 A02 A02 A03	A03
---------------------	-----

If **Yes** is selected for **Collate**, then consecutive copies of the serialization items **will not** be placed together. The result will resemble the following legend:

A01 A02 A03 A01 A02 A03	A01	A02	A03	A01	A02	A03
-------------------------	-----	-----	-----	-----	-----	-----

To change the **Collate** parameter, press the up or down directional arrow keys to highlight **Collate**.

CREATING SERIALIZATIONS

Press the right directional arrow key to select Yes or No.

Press the key to accept the changes and to return to the home screen.

Advanced Serialization Options

The serialization tool includes several advanced options for customizing labels. The advanced serialization options are **Print As** and **Place On**.

- 1. The **Print As** option determines whether the serialization will print as text or as a bar code on the labels. The default setting will print as text. The bar code settings can be changed in the setup menu. Printing a serialization as a bar code is useful for asset management, component manufacturing, and quality control.
- The Place On option determines whether the serialization will print on consecutive labels or on consecutive pages of the same label. The default setting will print on labels. Printing a serialization on pages is useful for creating serialized patch panel labels using die cut network systems label media, such as P1[™] cassette part number C252X030FJC.

Editing a Serialization

To edit a serialization on the home screen, move the cursor directly to the left of the serialization so that the icon is highlighted. Press the SHIFT key and then press the INSERT key. Follow the steps listed above for creating a serialization.

CREATING SYMBOLS

The Symbol Tool



The Symbol Tool is used for creating electrical, network, and safety or facility identification labels. The *PANTHER*[™] LS8EQ includes 82 pre-programmed symbols. You can also download and store up to 10 additional symbols of your choice from a computer in your LS8EQ printer. The downloadable symbols function is found in *PanTherLink*[™] software. See the *PanTherLink*[™] section of this manual for more information.

Creating a Symbol

The symbol tool should be accessed from the home screen. To access the symbol tool:

- 1. Press the INSERT key to enter the tools menu.
- 2. Press the directional arrows to highlight the symbol tool.
- 3. Press the key to select the symbol tool.
- 4. Use the right or left directional arrow keys or the PAGE key to search the symbol library. The PAGE key allows quicker navigation through the symbol categories. (see the next page for available symbols)
- 5. Use the up or down directional arrow keys to increase or decrease the size of the symbol. The default size of the symbol is chosen to match the text size on the <u>current line</u>.
- 6. Press the key to accept the changes and to return to the home screen. Otherwise, press the DEL key to return to the home screen without accepting changes.
- 7. On the home screen, the symbol tool icon will appear at the position of the cursor.

Editing a Symbol

To edit a symbol on the home screen, move the cursor directly to the left of the symbol so that the icon is highlighted. Press the SHIFT key and then press the INSERT key.

- 1. Use the right or left directional arrow keys or the PAGE key to search the symbol library.
- 2. Use the up or down directional arrow keys to increase or decrease the size of the symbol.
- 3. Press the key to accept the changes and to return to the home screen. Otherwise, press the DEL key to return to the home screen without accepting changes.

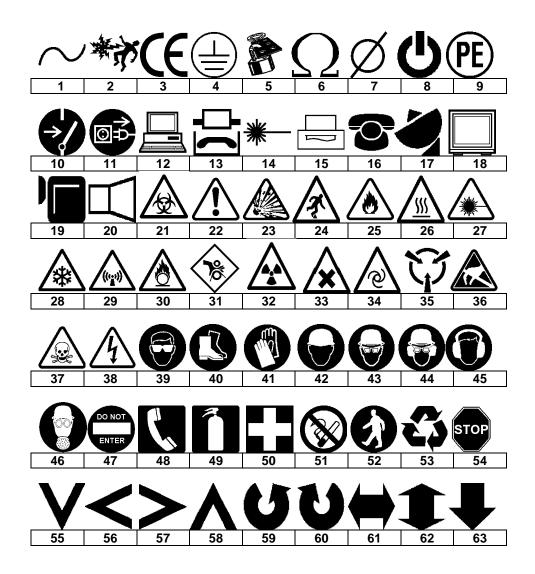
NOTE: There are 3 sizes available for each symbol. The sizes range from 1 (smallest) to 3 (largest).

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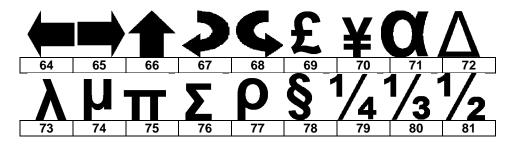


CREATING SYMBOLS

Currently available symbols and their assigned library numbers are listed below. Additional symbols may be added to the $PANTHER^{TM}$ LS8EQ firmware in the future.

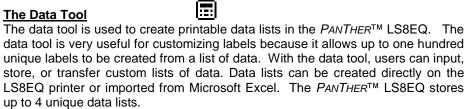


CREATING SYMBOLS



CREATING DATA LISTS

The Data Tool



Creating a Data Tool

The data tool should be accessed from the home screen. To access the data tool:

- 1. Press the INSERT key to enter the tools menu.
- Press the directional arrows to highlight the data tool. 2.
- Press the key to select the data tool. 3.
- Use the up or down directional arrow keys to highlight the data tool options. 4. You can recall a previously saved data list or you can create a new list. Creating a new list is similar to working on the home screen. Use the PAGE function to move forward or backward through the 100 data list items. After working in list, press the F5 key to exit the list. Follow the onscreen instructions to Save, Discard, or Continue Editing.
- After making all changes to the data tool options, select Save and Exit and 5.

then press the key to accept all of the changes and to return to the home screen. Otherwise, press the DEL key to return to the home screen without accepting changes.

On the home screen, the data tool icon 🔳 will appear at the position of the 6. cursor.

Creating a Data Tool with Microsoft Excel

See page 42 for detailed instructions

Editing a Data Tool

To edit a data tool on the home screen, move the cursor directly to the left of the data tool so that the icon is highlighted. Press the SHIFT key and then press the INSERT key. Follow the steps list above for creating a data tool.

CREATING BAR CODES

The Bar Code Tool

The bar code tool can be used for bin labeling, component identification, or asset management and can be used in combination with other tools. The bar code tool can be printed with or without a checksum digit or human readable text. The bar code symbologies available in the *PANTHERTM* LS8EQ are **CODE 39** and **CODE 128**.

Creating a Bar Code

The bar code tool should be accessed from the home screen. To access the bar code tool:

- 1. Press the INSERT key to enter the tools menu.
- 2. Press the directional arrows to highlight the bar code tool.
- 3. Press the key to select the bar code tool.
- 4. Press the right directional arrow key to input text. Type the text in the text window. The bar code must include at least one digit of text.
- 5. Press the Key to accept the text.
- 6. Use the up or down directional arrow keys to highlight the other bar code settings.
- 7. Use the right or left directional arrow keys to change the bar code settings.
- 8. Press the key to accept all of the changes and to return to the home screen. Otherwise, press the DEL key to return to the home screen without accepting changes.
- 9. On the home screen, the bar code tool icon **will** will appear at the position of the cursor.

Editing a Bar Code

To edit a bar code on the home screen, move the cursor directly to the left of the bar code so that the icon is highlighted. Press the SHIFT key and then press the INSERT key.

- Press the right directional arrow key to input text. Type the text in the text window. Quickly move to the far right by pressing the SHIFT key and then the right directional arrow key. The bar code must include at least one digit of text.
- 2. Press the $\underbrace{\overset{\text{enter}}}{\overset{\text{enter}}{\overset{\text{enter}}{\overset{\text{enter}}{\overset{\text{enter}}{\overset{\text{enter}}{\overset{\text{enter}}{\overset{\text{enter}}{\overset{\text{enter}}}{\overset{\text{enter}}{\overset{\text{enter}}}{\overset{\text{enter}}{\overset{\text{enter}}}{\overset{\text{enter}}{\overset{\text{enter}}}{\overset{\text{enter}}}{\overset{\text{enter}}{\overset{\text{enter}}}{\overset{\text{enter}}}{\overset{\text{enter}}}{\overset{\text{enter}}{\overset{\text{enter}}}}}}}}}}}}}}}}}$
- 3. Use the up or down directional arrow keys to highlight the other bar code settings.
- 4. Use the right or left directional arrow keys to change the bar code settings.
- 5. Press the key to accept all of the changes and to return to the home screen. Otherwise, press the DEL key to return to the home screen without accepting changes.

CREATING BAR CODES

Bar Code Settings

The default bar code settings can be changed in the setup menu. To change the default settings, access the printer settings in the setup menu.

Bar Code: Indicates what bar code symbology is currently chosen. This setting allows CODE 39 and CODE 128.

Readable: Indicates whether the bar code text is human readable or not. If activated (bar code text is human readable) the setting will display Yes.

Checksum: Indicates whether the checksum digit is activated or not. If activated (checksum digit is turned on) the setting will display Yes. Checksum must be used for CODE 128 bar codes. For CODE 128, checksum will always be activated.

Bar Size: Indicates the width of the bar code. Available sizes are 0.010 inches, 0.015 inches, and 0.020 inches. The default width is 0.015 inches.

Serialized Bar Codes

The *PANTHER*[™] LS8EQ is able to serialize bar codes. In order to do so, a serialization must first be defined. Please see the section entitled "CREATING SERIALIZATIONS" for more information about serialized bar codes.

CREATING A DATE OR TIME STAMP

The Date Tool



The Date Tool allows the user to print a date stamp on a label. The date printed on the label is defined by the internal clock of the $PANTHER^{TM}$ LS8EQ.

Creating a Date Tool

The date tool should be accessed from the home screen. To access the date tool:

- 1. Press the INSERT key to enter the tools menu.
- 2. Press the directional arrows to highlight the date tool.
- 3. Press the event the date tool.
- 4. On the home screen, the date tool icon **III** will appear at the position of the cursor.

Editing a Date Tool

To edit a date tool on the home screen, move the cursor directly to the left of the date tool so that the icon is highlighted. Press the SHIFT key and then press the INSERT key.

LC.		<u>- N</u>
	J.	-1
PN-		-41
	_	2

The Time Tool allows the user to print a time stamp on a label. The time printed on the label is defined by the internal clock of the *PANTHER*[™] LS8EQ.

Creating a Time Tool

The time tool should be accessed from the home screen. To access the time tool:

- 1. Press the INSERT key to enter the tools menu.
- 2. Press the up_directional arrow key to highlight the date tool.
- 3. Press the Every key to select the time tool.
- 4. On the home screen, the time tool icon will appear at the position of the cursor.

Editing a Time Tool

To edit a time tool on the home screen, move the cursor directly to the left of the time tool so that the icon is highlighted. Press the SHIFT key and then press the INSERT key.

- NOTE: Date and Time formats can be adjusted in the setup menu.
- NOTE: If a label contains a Date or Time tool, your LS8EQ printer may prompt you to reset the date or time before printing.

CREATING LINES

Lines

Lines allows custom placement of vertical and horizontal lines on a label. Lines are especially useful for creating patch panel, faceplate, or terminal block labels. There are seven unique line settings available: **Center Horizontal, Center Vertical, Top, Bottom, Left, Right,** and **@ Pages.** Each of these settings may be turned on or off independently.

- NOTE: The top, bottom, left, and right sides of the label will rotate with the legend when a label is rotated.
- 1. The **Center Horizontal** setting places a line through the center of the label in the horizontal direction.



2. The **Center Vertical** setting places a line through the center of the label in the vertical direction.



3. The **Top** setting places a line at the top of the label.

2



4. The **Bottom** setting places a line at the bottom of the label.



5. The Left setting places a line at the far left side of the label.



CREATING LINES

6. The **Right** setting places a line at the far right side of the label.



7. The @ Pages setting places lines between each page of a continuous label that has multiple pages defined. The @ Pages setting is used for patch panel, outlet, and terminal block labeling.

A01 A02 A	03 A04	A05	A06	
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Creating Lines

Lines should be accessed from the home screen. To access the line tool:

- 1. Press the LINE key.
- 2. Use the up or down directional arrow keys to select the desired line position.
- 3. Use the right or left directional arrow keys to turn on or turn off the line tool at the selected position.
- 4. Press the key to accept the changes and to return to the home screen. Otherwise, press the DEL key to return to the home screen without accepting changes.
- 5. On the home screen, the line icon $\frac{1}{2}$ will appear on the right side of the display when a line is activated.
 - NOTE: There are three different styles of lines: Normal, Bold, and Dashed.

Normal Line:	<u> </u>
Bold Line:	
Dashed Line:	

CREATING FRAMES

Frames

Frames are useful for customizing a label. There are three unique frame settings available: **Box, Reverse,** and **Box Off.**

The **Box** setting places a box outline around the perimeter of the entire label area.

WARNING

The **Reverse** setting places a dark background with light text characters on a label.

WARNING

The **Box Off** setting deactivates the frame.

Creating a Frame

The frame menu should be accessed from the home screen. To access the box tool:

- 1. Press the SHIFT key and then press the LINE key to enter box menu.
- 2. Use the right directional arrow key to change the setting.
- 3. Press the key to select the frame type.
- 4. On the home screen, the frame icon \square will appear on the right side of the display when a frame is activated.
 - NOTE: If a frame is activated, it will appear on all printed pages of a label.

USING PAGES

The Page Function

The *PANTHER*[™] LS8EQ provides 9 separate pages for each label. Label items, including text and tools may be placed on each of the 9 pages. The pages function is particularly useful for creating non-standard serializations that do not follow a common increment. The pages function is also useful for creating text on patch panel labels or terminal block labels.

Using the Page Function

The page number icon in the lower right hand corner of the display indicates the current page. For example, 1:9 indicates that page 1 of 9 is currently displayed. To change the page, press the PAGE key. Then scroll forward using the right directional arrow key or backward using the left directional arrow key. Press ENTER to accept the page change and return to the home screen.

USING SPECIAL FUNCTIONS

Special Functions

The *PaNTHER*[™] LS8EQ has several special functions that may be accessed by pressing the F keys at the top of the keypad. The special functions are listed in a menu that appears when pressing F1. The entire list of special functions includes:

- F1 Display or Exit the Special Function (F Key) Menu
- F2 Store and Recall User Profiles
 - There are two user profiles available for storing your favorite settings for text font size, label rotation, and label mode. Recalling a user profile saves set up time and increases productivity.

• F3 – Display Label Cassette Information

• Pressing F3 will display the part number, serial number, and quantity of labels remaining on the cassette. This information is also displayed automatically when turning the printer on.

• F4 – Market and Application Based Label Wizard

- This wizard provides a unique, time saving method to generate labels more quickly. It includes market specific application tools for wire/cable marking, terminal block labeling, network component labeling, and pipe marking.
- This wizard assists in choosing the required label cassette part number for each application.
- This wizard introduces new label legend creation tools, including a text table format and TIA compliance guide. See page 58 for a labeling example using this wizard.

• F5 – DIN Mode for European Terminal Blocks

 DIN terminal block labeling is based on European standards and is primarily used in European countries. For detailed instructions on using the DIN mode, refer to the Labeling Exercises section of this manual.

• F6 – Quick Key for Wire Marking

- o This function quickly adjusts the LS8EQ printer settings, including mode, font size, and rotation, for wire and cable marking applications. This function is intended for wire and cable marking with continuous cloth tape, such as *P1*[™] label cassette part number **T100X000CBC-BK**. Using continuous cloth tape for wire and cable marking allows you to select the exact size of marker that best meets your requirements.
- The LS8EQ also prints self-laminating wire and cable markers with predefined lengths. Self-laminating labels include a clear, protective layer for enhanced durability.

• F7 – Print Preview

 The print preview function enhances your label design with a more realistic, What You See Is What You Get (WYSIWYG), view of symbols, bar codes, and more. From within print preview you can navigate around a single label or between multiple labels and even zoom in to enlarge your design before printing.

SETTING UP THE PANTHER LS8EQ AND USING FILE MANAGER

The Setup Menu

The setup menu is used to modify the default printer settings. The setup menu should be accessed from the home screen. To access the setup menu press the SETUP key.

Use the setup menu to view or adjust the settings for language, units, bar code default, contrast, heat, fir mware version number, time, date, cut/pause, and automatic shutoff. Also use the setup menu to access the PC interface mode in order to import data from a computer, upgrade your printer's operating system, or print directly from Panduit Easy-Mark[™] Labeling Software.

The available language options in the setup menu are English, French, German, Italian, Portuguese, Castilian Spanish, and Latin American Spanish

Within the setup menu, scroll up or down using the directional arrows. Select the setting to adjust by pressing . Once inside the setting, use the arrow keys to select a parameter to change. Press to accept the changes and return to the main setup menu screen.

Press SETUP to exit from the setup menu with all changes.

SETUP MENU FUNCTION	DESCRIPTION
Languages	Select the language for on-screen prompts and messages.
Units	Set length units to inches or millimeters.
Bar Code	Set the bar code tool default values.
Contrast	Lighten or darken the LCD screen.
Heat	Increase or decrease the heat of the print head.
Version	Check the current firmware version number.
Date/Time	Change the default date and time settings.
Factory Defaults	Reset all formats back to their original values.
PC Interface	Communicate with a computer through the USB port.
Cut/Pause	Automatically pause a print job between labels for cutting.
Auto-Off	Turn on or off the 5 minute automatic shutoff power saving feature.

SETTING UP THE PANTHER LS8EQ AND USING FILE MANAGER

Label Modes

To edit the label mode, press the LABEL key.

1. Use the up or down directional arrows to select the desired mode and then press .

Available Modes include:

MODE	DESCRIPTION	APPLICATIONS
Component	Vertically centers legend	Electrical components
Wiremarker	Repeats legend until label is filled	Wire and cable marking
Terminal	Places legends at terminal locations	Terminal blocks
Таре	Rotates legends 90° clockwise	Safety/facility ID, pipe marking
Strip	Repeats legend until label is filled and copies legend on two sides of middle perforation	Wire and cable marking
Network	Places legends at port locations	Data communications components
Flag	Prints legend once at top of label and then repeats the legend once at the bottom of label	Wire and cable marking
Vertical	Prints legend vertically	Safety/facility ID, pipe marking

NOTE: Another mode for DIN terminal block labeling is accessible by pressing the F5 key. DIN terminal block labeling is based on European standards and is primarily used in European countries. For detailed instructions on using the DIN mode, refer to the Labeling Exercises section of this manual on page 57.

SETTING UP THE PANTHER LS8EQ AND USING FILE MANAGER

The *PANTHER*[™] LS8EQ has the ability to store and recall label files. Label files are stored and recalled within **File Manager**. Label files are designated with a **.LS8** ending.

To access the **File Manager**, press the SHIFT key and then press the PAGE key:

- 1. Use the right or left directional arrow keys to select the desired file. There are 30 file storage locations in the *PANTHER*[™] LS8EQ.
 - NOTE: When saving a new file, press the key to begin entering a file name. Use the alphabetic or numeric keys to enter a file name. After entering a file name, press the key again to **Save**.
 - NOTE: When renaming a previously saved file, press the key to begin entering the new file name. Use the alphabetic or numeric keys to enter the new file name. After entering the name, press the key again to **Save**.
- 2. Use the up or down directional arrow keys to highlight Action.
- 3. Use the right or left directional arrow keys to select **Save**, **Load**, **Delete**, or **Delete All**.

WARNING: Selecting **Delete All** will erase all stored labels.

4. Press the key to complete the selected action.

PANTHERLINK

Installing PANTHERLINK™

Use the *PANTHERLINK*[™] CD to install *PANTHERLINK*[™] software onto a personal computer. The *PANTHERLINK*[™] CD is available with the purchase of LS8EQ-KIT, LS8EQ-KIT-ACS, or LS8-PCKIT.

Insert the CD into a personal computer. The installation program will begin automatically. If it does not, then:

- 1. Click the Start menu button on your computer screen
- 2. Select Run
- 3. Select D:
- 4. Click OK
- 5. Double click the Setup file.
- 6. Follow the instructions in the installation wizard in order to complete the installation process.

PANTHERLINK™ Installation Screens

Main Installation Screen.



Click Install PanTherLink.

PANTHERLINK

🖉 PanTherLink	
Welcome to the PanTherLink Setup Wizard	E .
The installer will guide you through the steps required to install PanTI	ielLink on your computer.
Dick "Next" to continue.	
WARNING: This computer paggam is protected by coopsight bas any Unsufficient displaying a distribution of the program, or any protoc civil or ciminal penalties, and will be prosecuted to the maximum exter-	of it, nay result in severe
Cancel Prev	ious Next

Click Next.

🔀 PanTherLii	ık		
Select Ins	stallation Folder		
The installer will install PanTherLink in the following folder. To install in this folder, click "Next". To install to a different new or existing folder, enter one before or click "Nervee"			
<u>F</u> older:	C:\Program Files\PanTherLink\ Ithe software on the following dityes:	Browse	
Volume		Disk 🔦	
		3	
* *	111	40 🗸	
<u>1 - 2</u>		Disk Cost	
	Cancel Previous	Next	

Click Next.

j∂ PanTherLink			
Confirm Installation			
The installer is ready to install PanTherLink on your computer.			
Click "Next" to start the installation.			
Cancel Previous	Next		
Calcer			

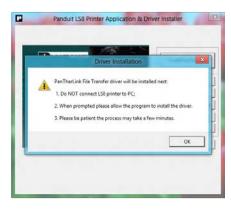
Click Next.

id PanTherLink	
Installing PanTherLink	
PanTherLink is being installed.	
Please wait	
Cancel Previous	Next
Cancel Previous	Next

Upon completion of the installation process the *PANTHERLINK*[™] icon will appear on the computer desktop.

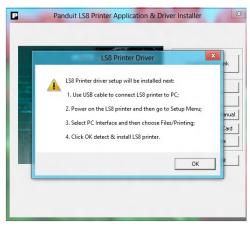


PANTHERLINK[™] desktop icon

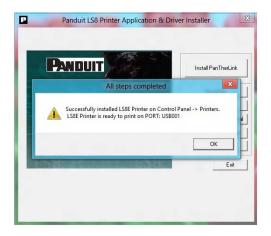


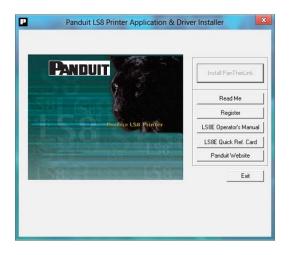
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1.58			1000		Exit





PANI	TIUD	Install PanTherLink
Con S	PanTherLinkSetup	Read Me
		Register
	LS8 Printer port successfully found	8E Operator's Manual
	ОК	S8E Quick Ref. Card
	UK UK	Panduit Website
USS	Sector Sector	Exit





Click exit to exit the installation program

<u>Using PanTherLink™</u>

To use *PANTHERLINK*[™] software with the *PANTHER* [™] LS8EQ printer:

- 1. Connect the USB cable (included with LS8EQ-KIT and LS8-PCKIT) to a personal computer.
- 2. Connect the USB cable to the PANTHER[™] LS8EQ at the USB port.
- 3. Turn **ON** the *PANTHER*[™] LS8EQ.
- 4. Press the SETUP key to access the setup menu.
- 5. Use the up or down directional arrow keys to highlight PC Interface.
- 6. Press the key.
- 7. Use the up or down directional arrow keys to highlight Files/Printing, Symbol Transfer, or Firmware Upgrade.
- 8. Press the key.
- 9. When choosing Firmware Upgrade, select Yes and then press
- 10. The LS8EQ is now ready to communicate to a personal computer.
- 11. Open *PANTHERLINK*[™] software on a personal computer.
- 12. Use *PaNTHERLINK*[™] to transfer data files, label files, or symbols between the *PANTHER*[™] LS8EQ and a computer or for upgrading your LS8EQ printer firmware.

PANTHERLINK™ File Menu Tree Screen

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tie Firmware Vew Help						
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🗷 🛅 Symbol film						
r Help, press Fi			_		TAIN	

<u>Using the PanTher™ LS8EQ Hand-Held Thermal Transfer Printer with</u> Microsoft Excel^

Create the Excel .CSV File

- 1. Start a new spreadsheet in Excel
- 2. Enter the legend data within the first 8 columns and 100 rows.
 - NOTE: Each column (up to 8) of the spreadsheet will be treated as a line within the label. A blank cell will be treated as a blank line. A line is limited to 32 characters. A blank row will be treated as a blank label.
- 3. Select FILE, then SAVE AS
- 4. In the SAVE AS window, select the CSV (comma delimited *csv) in the "Save as type:" list.
- 5. Enter a file name (no more than 8 characters in length), then browse to the desired folder for saving the file.
- 6. Click the SAVE button.
- 7. Select OK for the first warning message.
- 8. Select YES for the second warning message.
- 9. The file is now saved.

Excel Screens

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	GL1	D3L2	De Sav									1000
	41,1	D4L2		re As								
	6L1	D5L2	DE	Seve ja:	My Docu	ments		- + 🗈	Q×C	TT - Too	k +	
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	6L1	DBL2	0000	3	My Picture	15						
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			_			and the second	0.0000000			and a		

Convert Excel .CSV File to .DAT File

- 1. Open PanTherLink software.
- 2. Select FILE, then "Convert CSV to DAT ... "
- 3. In the Select CSV window, browse to the CSV file created by Excel.
- 4. Select OPEN. The file name will disappear so that you can rename and save the file as a .DAT file.
- In the "Select target DAT file" window, enter a file name for the data file.
 Browse to the desired folder for saving the data file.
- 7. Select SAVE.
- 8. The data file is now created and saved. This file can now be transferred to the LS8EQ printer using PanTherLink software.

Excel .CSV File to .DAT File Conversion Screens

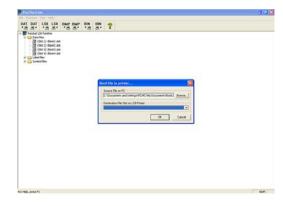
Select CSV f	ile to convert.	? 🗙
Look in: 🗀	New Folder 💽 🔶 🖻	* 💷 *
Book1		
File name:	Book1	Open
Files of type:	Comma-seperated value files (*.csv)	Cancel
	·	
Select target	t DAT file.	? 🗙
Select target		
Select target		

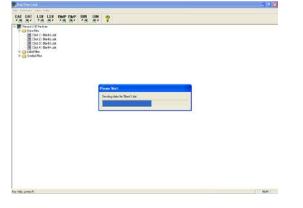
Transfer .DAT File to LS8EQ Printer

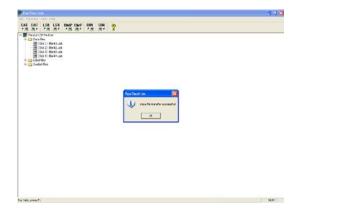
- 1. Power LS8EQ printer on
- 2. Press the SETUP button. Select PC Interface. Select Files/Printing.
- 3. The LS8EQ printer is now ready to send or receive files.
- 4. Open PanTherLink software on your computer.
- 5. Select Send a data file to the LS8EQ printer from the toolbar. The icon shows "DAT" with an arrow pointing away from a computer.
- 6. Browse to locate your .DAT file on your computer. Highlight the file and click Open.
- 7. Select the file storage location on the printer to send the .DAT file to.
- 8. Click OK.
- 9. The file transfer progress bar will appear.

- 10. Once the Data file transfer successful message appears on your computer, click OK.
- 11. The file menu tree on the left side of the PanTherLink screen will update automatically.
- 12. Press DEL twice on the LS8EQ printer to end the PanTherLink session and return to the SETUP menu.
- 13. Press SETUP to return to the home screen.
- 14. To insert the data file into a label, press INSERT and select DATA.
- 15. Scroll right to select the file to insert.
- 16. Scroll down to Save and Exit.
- 17. Press
- 18. The Data tool icon will appear on the LS8EQ home screen.
- 19. You are now ready to print your data list created in Microsoft Excel.

.DAT File Transfer Screens







<u>Using the PanTher™ LS8EQ Hand-Held Thermal Transfer Printer to</u> <u>Download Custom Graphic Files</u>

- 1. With PanTherLink software, you can download and store up to 10 custom graphic files on your LS8EQ printer.
- 2. PanTherLink software includes a library of 60 graphic files for you to choose from. See page 49 for a complete list of symbols in this library.
- 3. You can also download your own graphic files. All downloadable files must be must be saved as 150 X 150 pixels, monochrome bitmap (.bmp) files.
- 4. To use the downloadable symbols function on your LS8EQ printer, you must first have firmware version 2.0.3 or higher installed. You can check your current firmware version in the SETUP menu. If your version is prior to 2.0.3, please upgrade your firmware, using the detailed instructions in the next section.
- 5. Power LS8EQ printer on and connect the USB cable between the printer and your computer.
- 6. Press the SETUP button. Select PC Interface. Select Symbol Transfer.
- 7. Open PanTherLink software on your computer.
- 8. Select Download a Symbol to the LS8EQ printer from the toolbar. The icon shows "BMP" with an arrow pointing away from a computer.
- 9. Browse to locate your .BMP file on your computer. Highlight the file and click Open.
- 10. Select the file storage location on the printer to send the .BMP file to.
- 11. Click OK.
- 12. The file transfer progress bar will appear.
- 13. Once the Symbol file transfer successful message appears on your computer, click OK.
- 14. The file menu tree on the left side of the PanTherLink screen will update automatically. All blank file locations on your printer are named Blank_.bmp. All file locations on your printer with custom symbols saved in them are

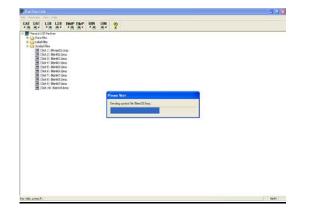
named Btmap_.bmp. After a custom symbol has been saved on your printer and if you are in the PC interface, symbol transfer mode, within PanTherLink software you can click the file location to see a graphic representation of the symbol.

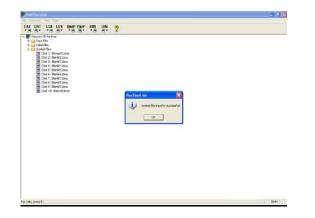
- 15. Press DEL twice on the LS8EQ printer to end the PanTherLink session and return to the SETUP menu.
- 16. Press SETUP to return to the home screen.
- 17. To insert the custom symbol file into a label, press INSERT and select SYMBOL
- 18. Scroll right or left to select the file to insert. The custom graphic files are stored in locations 83-92.
- 19. Press 🖭.
- 20. The Symbol tool icon will appear on the LS8EQ home screen.
- 21. Press PRINT.

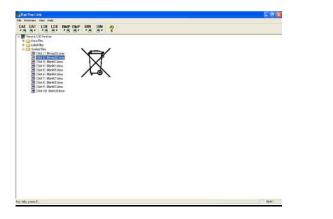
Downloadable Symbols (.BMP) File Transfer Screens

Send file to printer	×
Source File on PC C:\Program Files\PanTherLink\Downloadable_Symbols\Da Br	owse
Destination File Slot on LS8 Printer (Slot 2) Blank02.bmp	•
ОК С	ancel

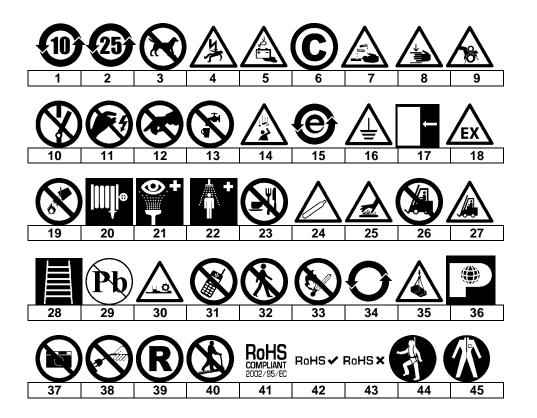
Select Source	e File		? 🛛
Look in: 🗀	Downloadable_Symbols	- 🖬 📩 🖬 -	Symbol Preview
Slippery Su Slippery Su Smoking Splashing v Storing and Storing Mag	rface 2 with Water I Stowing	Unauthorized Persons Unlock sign Wash Hands WEEE Symbol with Bar WEEE Symbol without Bar WeEE Symbol without Bar Welding or Soldering	R
File name:	WEEE Symbol without Bar Bitmap Files (*.bmp)	T Open Cancel	Note: Please select a 150x150 pixels monochrome bitmap.

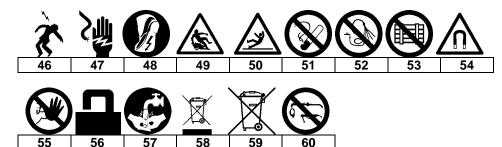






Library of Downloadable Symbols included in PanTherLink software:





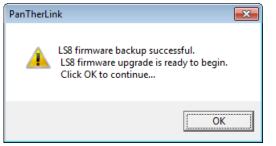
<u>Upgrading the PanTher™ LS8E Hand-Held Thermal Transfer Printer</u> <u>Firmware</u>

- 1. Open PanTherLink software.
- 2. Select Upgrades the LS8 firmware from the toolbar. The icon shows "BIN" with an arrow pointing away from a computer.
- 3. To enter USB upgrade mode on the LS8 printer, hold the F5 button and power the LS8E printer on.
- 4. Click OK on your computer.
- 5. The current firmware will be backed up first. A progress bar will show for this process.
- 6. Click OK to continue after the firmware has been backed up.
- 7. Select the model of the printer from the picture on the screen. LS8E or LS8EQ. Click on the picture of your model printer.
- 8. Click YES to confirm your model.
- The Upgrading Firmware progress bar will appear. The LS8E printer screen will display Receiving Firmware. The upgrade takes approximately 3 minutes to complete.
- 10. \triangle DO NOT INTERRUPT THE UPGRADING PROCESS! \triangle
- 11. Once the Firmware upgrade successful message appears on your computer, Click OK.
- 12. The LS8E printer will reboot automatically after the upgrade.

LS8E Printer Firmware Upgrade Screens

PanThe	rLink 🔀
	Please perform the following steps:
	1) Disconnect power from the LS8 unit
	2) Hold down the F5 button on the LS8 and reconnect power.
	3) Click OK.
	OK
PanTherl	ink 🖂
Paninen	
4	The current LS8 Firmware will be backed up first. Click OK to continue

Please Wait	
Backing up firmware	





PanTherLink	83
Confirm LS8EQ keypad model is selected	
<u>Y</u> es <u>N</u> o	

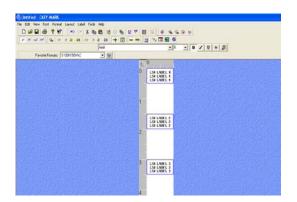
Please Wait	
Upgrading firmware Do not interrupt this process of	or turn off power!

Printing to the LS8EQ from Easy-Mark™ Labeling Software

- Open Easy-Mark[™] labeling software.
 Select an LS8EQ label format.
- 3. Create your labels.

- 4. Power the LS8EQ printer on and connect the USB cable from the printer to your computer.
- 5. Press the SETUP button. Select PC Interface. Select Files/Printing.
- 6. The LS8EQ printer is now ready to print from Easy-Mark[™].
- 7. In Easy-Mark[™], select File, Print.
- 8. Select PanTher LS8EQ from the printer list. Each time you change the LS8EQ format that you are using in Easy-Mark, you will need to select the new paper size as well. To do this:
 - a. Click Properties.
 - b. Click Advanced.
 - c. Select the Paper Size that matches your label format in Easy-Mark
 - d. Click OK
 - e. Click OK
- 9. Click OK to begin printing.

LS8EQ Printing with Easy-Mark Screens

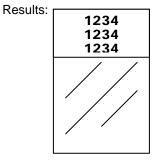


Print ?X
Printer
Name: PanTher LS8E Properties
Status: Ready
Type: PanTher LS8E
Where: USB001
Comment: PanTher LS8E Printer
Print range Copies
 All Number of copies:
C Labels from: 1 to: 1
Align Features OK Cancel

Exercise 1

Create basic text on a self-laminating wire/cable label

- Step 1: Insert a self-laminating label cassette such as S100X150VAC
- Step 2: When prompted, select New Blank File. Save previous label if necessary.
- Step 3: Type 1234
- Step 4: Press PRINT



Hint:	S100X150VAC defaults to 10 point font printed in Wire Marker Mode.
	You can adjust the font size by pressing the SIZE key.

You can adjust the label mode by pressing the LABEL key.

Exercise 2

Create basic text on heat shrink tubing

- Step 1: Insert a heat shrink tubing label cassette such as H000X044H1C
- Step 2: When prompted, select New Blank File. Save previous label if necessary.
- Step 3: Type ABCD
- Step 4: Press PRINT

Results:

ABCD ABCD ABCD Hint: H000X044H1C defaults to 10 point font printed in Wire Marker Mode with an "Auto" length setting.
You can adjust the font size by pressing the SIZE key.
You can adjust the label mode by pressing the LABEL key. For example, try Tape Mode.
You can set a fixed tubing length by using the LENGTH function. For

example, enter 200 for 2.00 inches.

Exercise 3

Create basic text on continuous tape

- Step 1: Insert a continuous tape label cassette such as T100X000VUC-BK
- Step 2: When prompted, select New Blank File. Save previous label if necessary.
- Step 3: Type 220 VOLTS
- Step 4: Press PRINT

Results:

220 VOLTS

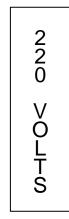
Hint:	T100X000VUC-BK defaults to 36 point
	font printed in Tape Mode with an
	"Auto" length setting.

You can adjust the font size by pressing the SIZE key.

You can adjust the label mode by pressing the LABEL key. For example, try Vertical Mode.

You can set a fixed tape length by using the LENGTH function. For example, enter 400 for 4.00 inches.

Vertical Text



Exercise 4

Create serialized wire markers with heat shrink tubing

- Step 1: Insert a heat shrink tubing label cassette such as H000X044H1C
- Step 2: When prompted, select New Blank File. Save previous label if
- necessary.Step 3: Type WIRE
- Step 4: Press INSERT key
- Step 5: Press down arrow key once to highlight Serial
- Step 6: Press
- Step 7: Press right arrow key
- Step 8: Type 1 for Start value
- Step 9: Press
- Step 10: Press right arrow key
- Step 11: Type 3 for End value
- Step 12: Press twice
- Step 13: Press PRINT

Results: Heat Shrink Serialization...

WIRE1	WIRE2	WIRE3
WIRE1	WIRE2	WIRE3

... Using Cut/Pause Function

Hint:	The Serial tool allows numeric or alphabetic serializations.	
	You can choose any increment from 1 to 99, print multiple copies of a series, and even collate the copies of the series items.	
	Heat shrink tubing can be partially cut to create a strand of individual markers. The Cut/Pause function in the Setup Menu will pause a print job between each consecutive label for cutting. The print job will automatically restart after cutting	

Exercise 5

Create a symbol label on continuous tape

- Step 1: Insert a continuous tape label cassette, such as T100X000VXC-BK
- Step 2: When prompted, select New Blank File. Save previous label if necessary.
- Step 3: Press SHIFT key and let go
- Step 4: Press A key
- Step 5: Press SPACE
- Step 6: Type CAUTION
- Step 7: Press PRINT

Results:



Exercise 6

Create terminal block labels

- Step 1: Insert a terminal block cassette (T024X000FJC-BK, T031X000FJC-BK, or T038X000FJC-BK)
- Step 2: When prompted, select New Blank File. Save previous label if necessary.
- Step 3: Enter the terminal spacing (ie. 0.25")
- Step 4:
 - o Create text....
 - Each terminal has up to 8 lines available. You may need to increase the terminal space or decrease the font size to fit additional lines. Up to 9 terminals can be created in this way.
 - Use the Page key to move to the next or to the previous terminal
 - o ...or create a serialization...
 - Press the INSERT key, select serial
 - Enter start, end, and increment values

- Up to 999 terminals can be created and printed as a single print job using a numeric serialization. Alphabetic serialization allows even more!
- o ...or create a data list...
 - Press the INSERT key, select data
 - Select Create/Edit to start a new list or...
 - Select Choose File to insert an existing list. Up to 4 unique lists can be stored here.
 - Data can be imported from Microsoft Excel (up to 8 columns by 100 rows) using PanTherLink software and then inserted on a label through the data tool.
 - If creating or editing data on the LS8EQ, use the Page key to move to the next or to the previous terminal. 8 lines are allowed per terminal. Text for up to 100 terminals can be created in this way.
 - Press F5 to exit the data list editor. Press S to save the list.
 - Scroll to Save and Exit
 - Press ENTER
- Step 5: Press PRINT
 - If you see the Tools too big error, then reduce the font size, increase terminal space, or check the label rotation.

Hint: You can separate the terminal legends with lines across the label. To do this, press the Line key, select @ Pages – Yes. Press Enter.

You can change the terminal spacing by:

- Pressing the Shift + DEL keys, to Clear All Pages & Format. Then enter a new terminal space and press the Enter key.
- ... Or by using the LENGTH function.

Exercise 7

Create DIN rail terminal block labels

- NOTE: DIN rail terminal block labeling is based on European standards and is primarily used in European countries. The unit of measure for length in DIN Mode is millimeters (mm).
- Step 1: Insert a continuous tape cassette, such as T050X000VPC-BK
- Step 2: When prompted, select New Blank File. Save previous label if necessary.
- Step 3: Press F5 to begin the DIN Mode function.
- Step 4: Enter the Module Size. The Module Size is a length measurement. The Module Size can be any number between 5 mm and 99 mm.
- Step 5: Enter the Module Span. The Module Span is a multiplier. The Module Span can be any number between 1 and 9. The resulting length of a DIN module label section is the Module Size multiplied by the Module Span. For example, a Module Size of 10 mm and Module Span of 2 equal a DIN label section of 20 mm. DIN labeling allows you to print consecutive label sections on continuous tape of varying lengths.
- Step 6: Create label text or tools
- Step 7: Press PRINT
- Step 8: Repeat steps 4 through 6 until print job is complete
- Step 9: Press DEL at steps 4 or 5 to exit DIN Mode and return to the home screen.

Exercise 8

Create a faceplate or patch panel label

- Step 1: Insert a network component label, such as C252X030FJC
- Step 2: When prompted, select New Blank File. Save previous label if necessary.
- Step 3: Enter the number of ports required (ie. 4)
- Step 4: Type "A"
- Step 5: Press the INSERT key and select 123 Serial
- Step 6: Enter a start value of 01, stop value of 04, and increment value of 1
- Step 7: Press ENTER

A01

Step 8: Press PRINT

Results:

A02 A03 A04

Exercise 9

Create serialized wire or cable labels using the Application Based Label Wizard.

- Step 1: Turn printer on. (A label cassette does not need to be loaded in the LS8EQ printer in order to begin this exercise.)
- Step 2: If prompted, select New Blank File. Save previous label if necessary
- Step 3: Press F4 to begin Label Wizard. Follow the on screen instructions.
- Step 4: Select the ECM market by pressing the right arrow key and then pressing ENTER.
- Step 4: Select WIRE as the application by pressing ENTER.
- Step 5: Select 12-10 as the wire size by pressing the right arrow key and then pressing ENTER.
- Step 6: Select SELF for self-laminating labels.

THE OPTIMUM LABEL CASSETTE PART NUMBER FOR YOUR APPLICATION IS NOW DISPLAYED ON SCREEN. INSERT THIS LABEL CASSETTE INTO THE LS8EQ PRINTER.

- Step 7: Select SER to create a serialization by pressing the right arrow key and then pressing ENTER.
- Step 8: Use the right and left arrow keys to select the serialization parameters (START, END, INCREMENT, ETC.), then press ENTER.
- Step 9: Type the value for each parameter in the on-screen window and press ENTER to accept each value.
- Step 10: Press Shift and then F10 to save the serialization and exit the Label Wizard
- Step 11: Press PRINT

Detailed instructions for using the other functions within the Application Based Label Wizard are included below.

APPLICATION BASED LABEL WIZARD (F4)

APPLICATION BASED LABEL WIZARD SELECTIONS

Markets:

OEM:	Original Equipment Manufacturers (Industrial Automation,
	Control Panel Builders, and Manufacturing Operations)

- **ECM:** Electrical Construction and Maintenance (Maintenance and Repair Organizations (MRO), Contractors, and Installers)
- **NET**: Network and Data Communications (Enterprise, Data
 - Centers, Connected Buildings, and Network Installers)

OEM/ECM Applications:

- WIRE: Wire and Cable Marking
- TUBE: Heat Shrink Tubing
- TERM: Terminal Block Labeling
- PIPE: Pipe Marking

Network Applications:

Cable Marking
Patch Panel Labeling
Backbone Labeling
Ground Labeling

- FACE: Faceplate Labeling
- FIRE: Firestop Labeling

TIA/EIA-606-A Compliance Tool Applications:

- HLINK: Horizontal Link Identifier
 - FACE: Faceplate Identifier
 - PATCH: Patch Panel Identifier
 - PUNCH: Punchdown Block Identifier
 - **TS**: Telecommunications Space Identifier
 - CONN: Connectors
 - TMGB: Telecommunications Main Grounding Busbar
 - **TGB**: Telecommunications Grounding Busbar
 - **BBAK:** Building Backbone Cable Identifier
 - BBAKP: Building Backbone Pair or Optical Fiber Identifier
 - FIRE: Firestop
 - **CBAK**: Campus Backbone Cable Identifier
 - CBAKP: Campus Backbone Pair or Optical Fiber Identifier

Using the Table Entry Tool in the Label Wizard

- 1. From within the Label Wizard, select TABLE.
- 2. Use the right and left arrow keys to scroll between the table parameters.
- 3. Press ENTER to select a parameter. An on-screen window will appear.
- 4. Type the value for the selected parameter in the on-screen window.
- 5. Press ENTER.
- 6. The Table entry layout on the screen indicates the current item number, the number of copies for the current item, and the current line number within the item.
- 7. Press ITM+ to move to the next item. Press ITM- to move to the previous item. The maximum number of items (including copies) is 100.
- 8. Use the up and down arrow keys to change line number. There are 8 lines available for text.
- 9. The QTY function displays the total number of items (including copies) in the table.
- 10. Press Shift and then F10 to save the serialization and exit the Label Wizard.
- 11. The TABLE that you have created is stored in a data file. The data tool appears on the home screen. To edit this file, highlight the icon on the home screen, press SHIFT, and press the INSERT key.
- 12. Press F4 to restart the Label Wizard for a new TIA compliant labeling application.
- 13. The TABLE entry tool in the LS8EQ printer is similar to the Text/Table label wizard function within Easy-Mark[™] labeling software.

Creating a Serialization in the Label Wizard (see exercise 9 above)

- 1. From within the Label Wizard, select SER for serialization.
- 2. Use the right and left arrow keys to scroll between serialization parameters.
- 3. Press ENTER to select a parameter. An on-screen window will appear.
- 4. Type the value for the selected parameter in the on-screen window.
- 5. Press ENTER.
- 6. Repeat steps 2-4 for each parameter.
- 7. Press Shift and then F10 to save the serialization and exit the Label Wizard.

APPLICATION BASED LABEL WIZARD (F4)

Using the TIA/EIA-606-A Compliance Tool in the Label Wizard

- 1. From within the Label Wizard, select TIA for TIA/EIA-606-A.
- 2. Use the right and left arrow keys to select the required class (class 1, class 2, class 3, or class 4).
- 3. Press ENTER.
- 4. Use the right and left arrow keys to scroll between TIA labeling applications.
- 5. Press ENTER for the selected TIA application.
- 6. Use the right and left arrow keys to scroll within the parameters of each TIA application.
- 7. Press ENTER for the selected parameter. An on-screen window will appear.
- 8. Type the value for the selected parameter in the on-screen window.
- 9. Press ENTER.
- 10. Repeat steps 6-9 for each parameter.
- 11. Press Shift and then F10 to save the serialization and exit the Label Wizard.
- 12. The TIA compliant labels that you have created are stored in a data file. The data tool appears on the home screen. To edit this file, highlight the icon on the home screen, press SHIFT, and press the INSERT key.
- 13. Press F4 to restart the Label Wizard for a new TIA compliant labeling application.
- 14. The TIA compliance tool in the LS8EQ printer is similar to the TIA/EIA-606-A label wizard function within Easy-Mark[™] labeling software.

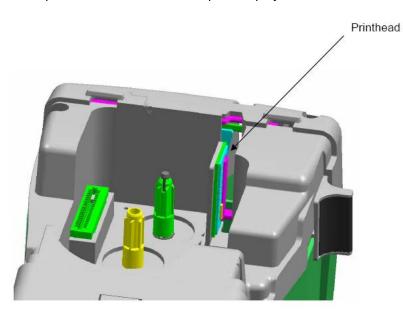
PRINTER CLEANING INSTRUCTIONS

Cleaning the Print head and Drive Roller

The LS8EQ printer is cleaned using the LS8-CLN cleaning kit.

The print head should be cleaned regularly, and more often in harsh environments. The print head should be cleaned whenever any irregular printing results occur. The drive roller should be cleaned whenever foreign matter, such as dust or adhesive, is present.

- 1. Turn **OFF** power to printer.
- 2. Remove the cassette door.
- 3. Unlock the print head latch.
- 4. Remove the label cassette from the printer
- 5. Rub a cotton swab with cleaning solution along the print head.
- 6. Repeat until no more residue is picked up by the swab.



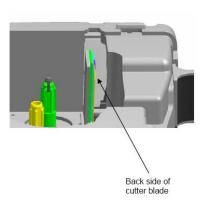
PRINTER CLEANING INSTRUCTIONS

Cleaning the Cutter Blade

The cutter blade should be cleaned when the quality of the cut indicates that the blade may be dirty.

- 1. Turn **OFF** power to printer.
- 2. Remove the cassette door.
- 3. Unlock the print head latch.
- 4. Remove the label cassette from the printer
- 5. Push the cutter button in so that the cutter blade is exposed through the media opening (see images below).
- 6. Clean the front and back sides of the cutter blade with the cotton swab and cleaning solution.
- 7. Repeat until no more residue is picked up by the swab.





PRINTER TROUBLESHOOTING

This section helps identify printer conditions and problems that can often be solved by the user. If you are unable to correct the problem contact Panduit Technical Support at **866-871-4571** or Panduit Customer Service at **800-777-3300**.

SYMPTOM	ACTION
POWER	
Printer does not power up properly, and LCD does not come on.	 To turn printer ON, press the power button. Make sure that 6 AA alkaline batteries are loaded in the printer. If problem persists, replace batteries. Plug in AC Adapter.
PRINTING Not printing.	 Make sure printer: Is turned ON Has label cassette loaded properly. Label media is fed beneath guide arm on cassette. Print head latch is locked. Has text or tools on the screen to print.
Tools Too Big!	 The items on the home screen are too large for the printable area. You can: Reduce the text size on the home screen Reduce the symbol size Reduce the bar code size Rotate the label Use a larger label If you are using continuous tape or continuous heat shrink tubing, increase the length of your label or set your length to AUTO.

PRINTER TROUBLESHOOTING

SYMPTOM	ACTION
Media is not advancing properly	Print head latch is not locked.End of label roll reached. Replace label cassette.
in the printer.	Label jam in printer. Label is caught in print
	mechanism. To clear jam: 1. Turn printer power OFF.
	2. Unlock the print head latch
	 Open cassette door. Detach any printed labels with cutter.
	5. Remove label cassette from printer.
	6. Carefully remove any labels caught in the printer.
	 Reinstall label cassette. Replace cassette door.
	9. Lock print head latch.
Printed image is full, but grayish or "translucent".	 Print head heat setting is too high. Reduce heat setting. The heat setting is accessible in the Setup menu. Press the SETUP key, scroll down to heat and Press ENTER. Adjust the heat setting with the up or down arrows.
Voids in printed	• Print head elements or "dots" are dirty or obstructed.
image: areas where there is no print.	Clean print head with soft-stemmed swab and isopropyl alcohol (part number LS8-CLN)
LABELS	
Labels not	Make sure that labels are feeding properly.
registering	 Printer not reset for new label format. Turn printer OFF, then ON again. Printer will re-calibrate for new label.
	 Make sure label media is fed beneath guide arm on cassette.
Die-cut labels continue to feed	 Label sensor is dirty or obstructed. Clean sensor with soft-stemmed swab and isopropyl alcohol (part
without stopping.	number LS8-CLN).
CUTTER	
Cutter does not work	 Make sure that cutter blade and print head are free of debris or adhesive build-up. Clean cutter with
	soft-stemmed swab and isopropyl alcohol (part
	number LS8-CLN). See detailed cleaning instructions for more information.
DISPLAY	
Printer powers on but nothing appears on the display	 Hold F5 and power the printer on. Reinstall the printer firmware using PanTherLink software and a USB cable.

FREQUENTLY ASKED QUESTIONS

- 1. Question: How do you cut the labels?
 - Answer: Fully press and then release the cutter button. The cutter button is located on the top of the LS8EQ printer adjacent to the label exit.
- 2. Question: What is the partial cut function and how is it adjusted?
- Answer: Partial cutting enhances productivity and organization by keeping a strand of labels together for pulling apart at a job site. The partial cut function leaves a small bit of liner uncut. The cutter can be adjusted to full or partial cut by turning the black knob on the cutter button. The molded icons in the cutter button indicate whether the printer is set to full or partial cut.
- Question: Should I remove the white tab from my label cassette? Answer: No, this tab is meant to remain on the cassette. It is used to help remove the cassette from your printer.
- 4. Question: How many files can be stored on the LS8EQ printer? Answer: You can store 30 label files and 4 data lists on the LS8EQ printer.
- 5. Question: How much memory does the LS8EQ printer have? Answer: The LS8EQ printer has approximately 192 Kb of memory available for file storage.
- Question: Can I use the AC adapter to charge my batteries? Answer: No, the AC adapter does not charge the batteries in the printer. If the low battery icon appears on the screen, then replace the batteries with new ones.
- Question: What is the print resolution of the LS8EQ? Answer: The print resolution of the LS8EQ is 203 dpi (dots per inch).
- Question: Where is the LS8EQ serial number? Answer: The serial number for your LS8EQ printer is printed on a label inside of the battery compartment.

FREQUENTLY ASKED QUESTIONS

- 9. Question: If my cassette runs out during a print job, after I reinstall another cassette, will the print job begin where it left off?
 - Answer: No, the print job will start over. To avoid printing duplicate labels, you can change the printing parameters, such as the serialization start or end, before printing.
- 10. Question: How many label cassettes can you print before needing to replace the batteries?
 - Answer: The number of label cassettes that can be printed before replacing the printer's batteries depends on the label size, label material, font size, and number of characters or tools that you are printing. While the number of cassettes will vary, you should typically be able to print at least 4 or 5 cassettes before replacing the batteries.
- 11. Question: Will the cutter blade ever get dull, and if so would the printer need to be repaired?
 - Answer: The cutter blade is designed to maintain its sharpness throughout the life of a printer. The cutter blade should be cleaned periodically or whenever adhesive build-up appears. If the cutter blade breaks for any reason, it should be returned to Panduit for repair.
- 12. Question: Can I save an Easy-Mark label file to my LS8EQ printer? Answer: No, an Easy-Mark file cannot be saved to an LS8EQ printer. The Easy-Mark file can be printed on the LS8EQ, but it should be saved on a computer.
- 13. Question: What is the output voltage of the LS8EQ AC adapter? The output voltage is 9 V.
- 14. Question: Answer: How do I change the style of my label text? Press the STYLE key to change the text style between NORMAL and **BOLD** or to add an <u>UNDERLINE</u>. The new text style can be applied to all characters on a label or just to characters inserted after the change. Text style can be different for each individual text character on a line.

WARRANTY INFORMATION

PANDUIT Tool and Printer Warranty:

Panduit tools and printers are warranted to be free from defects in material and workmanship at the time of sale but Panduit's obligation under this warranty is limited to the replacement of any tool or printer proved to be defective within 1 year (for printers) and 90 days (for tools) from the date of purchase.

Before using, buyer shall determine the suitability of the tool or printer for his intended use and buyer assumes all risk and liability whatsoever in connection therewith.

This warranty is void if the Panduit tools or printers are modified, altered or misused in any way. Use of Panduit tools or printers with any product other than the specified Panduit products for which the printer or tool was designed constitutes misuse.

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This warranty may not be altered except by an agreement signed by officers of seller and Panduit.

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GENERAL SPECIFICATIONS

Print Method: Effective Print Width: Print Length: Print Resolution: Label Width: Media Length: Media Types: Materials:	Thermal transfer 1.00" (25.4 mm) 12.00" (maximum label length) 203 dpi (horizontally and vertically) 0.24" to 1.0" Up to 25' continuous tapes Die cut or continuous tapes Vinyl self-laminating, flattened heat shrink, vinyl cloth, polyester, continuous tape, vinyl, non-adhesive polyester, polyolefin
Media Cutting:	Manually operated cutter
Display:	4 line x 14 graphic LCD with backlight
LCD Contrast Control:	Adjustable via keypad
Operating System:	Panduit proprietary – user upgradeable
Power Supply:	6 AA alkaline batteries
AC Adapter:	Universal Input (100 - 240 VAC, 50/60 Hz)
Oper. Temp/Hum:	41-104° F (5-40 °C),
	0 - 90% relative humidity (non-condensing)
Stor. Temp/Hum:	-40-140° F (-40-60 °C),
	0 - 90% relative humidity (non-condensing)
Compliance:	FCC Part 15 Class A
	European Community EMC and Low Voltage Directives
	regarding safety, emissions, and immunity
	European Community Restriction of Hazardous
	Substances (RoHS)
	European Community Waste Electrical and Electronic
	Equipment (WEEE)
Weight	1.76 lbs. (0.80 kg)

GLOBAL TECHNICAL SUPPORT INFORMATION

COUNTRY/REGION	TECHNICAL SUPPORT PHONE NUMBER
Asia Pacific	65-6379-6700
Australia	61-3-9794-9020
Brazil	551136112434
Canada	866-871-4571
Europe	44-208-601-7200
Japan	81-3-376-77011
Latin America	01-800-36086-00
USA	866-871-4571