# PM42

## Industrial Label Printer

# User Manual

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**Technical Support Portal: www.hsmsupportportal.com**

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**Telephone: www.honeywellaidc.com/locations**

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## Limited Warranty

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**Warning: Moving parts are exposed when the cover is open. Make sure the cover is closed before you operate the printer.**

**Warning: The printhead/motor may be hot. Allow the printhead/ motor to cool.**

**Warning: Do not put your fingers inside the print mechanism when the power is on.**

**Warning: The tear bar contains sharp edges. Keep fingers and other body parts away from the tear bar.**

**Caution: Read and review the warnings in this manual carefully before connecting the printer.**

**Caution: Observe all safety and accident prevention regulations applicable to your specific region and application.**

**Caution: Do not spray the printer with water. If you are using a host to clean the premises in an industrial environment, remove the printer or protect it carefully from spray and moisture.**

**Caution: You must implement both hardware and software safety precautions to prevent the possibility of undefined system states.**

**Caution: You must make sure that dangerous conditions cannot occur under any circumstances, even for a brief period of time.**

**Caution: Carefully read the warning text on the envelope before using a cleaning card.**

**Caution: To reduce the risk of electric shock or fire, keep the cover closed and turn off the printer when not in use. No user-serviceable parts inside.**

# 1

# About the Printer

This chapter introduces the PM42 printer and describes printer features and basic printer operation.

# About the PM42 Printer

The PM42 printer is a rugged label printer that include integrated Ethernet, RS-232, and USB interfaces. The printer includes these features:

- Print speeds of up to 10 ips (406 dpi printhead) and 12 ips (203 and 300 dpi printhead)
- USB host port to connect storage devices, scanners, or keyboards
- USB device port to connect to a desktop PC
- Support for these printer programming languages: Fingerprint, Intermec Printer Language (IPL), Direct Protocol, DSim, ZSim, and Smart Printing.

# Printer Features

Use these illustrations to familiarize yourself with the printer features.

Media cover

User interface

Print button

**PM42 Front View**

Media hanger

Edge guide

Ribbon supply

Ribbon takeup

Dancer guide

Printhead lever

Gap sensor adjustment wheel

*PM42 Internal View*

On/Off switch

Ethernet port

IEEE 1284 port

RS-232 serial port

USB device port

USB host port

AC power
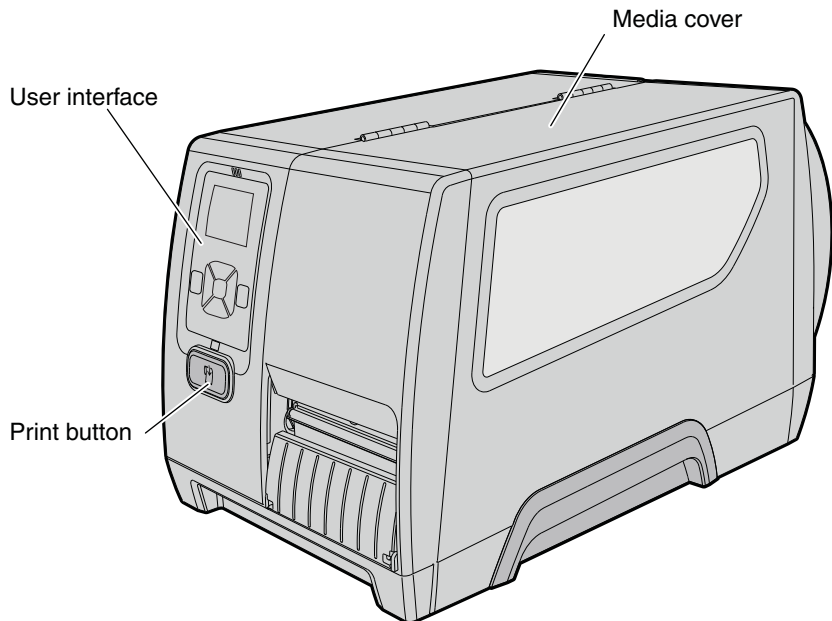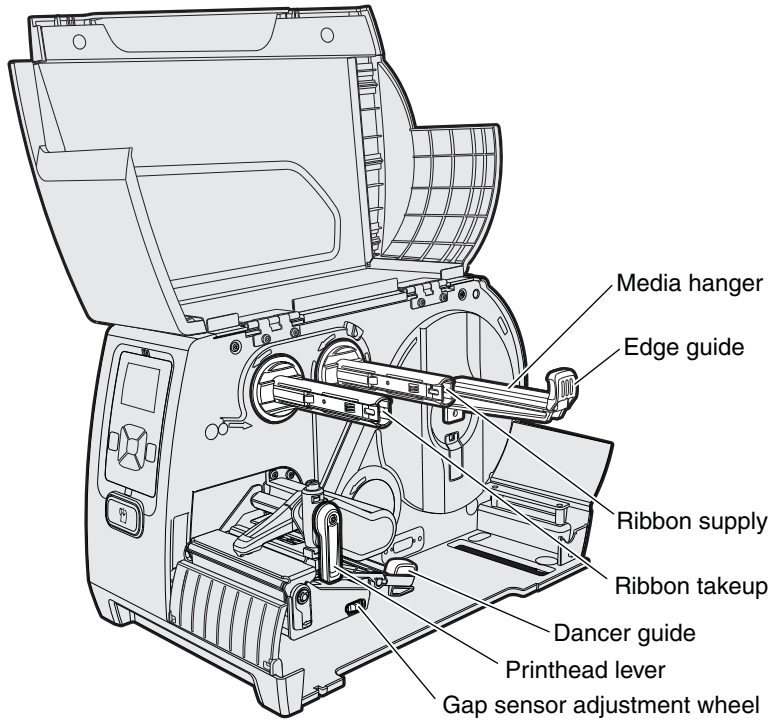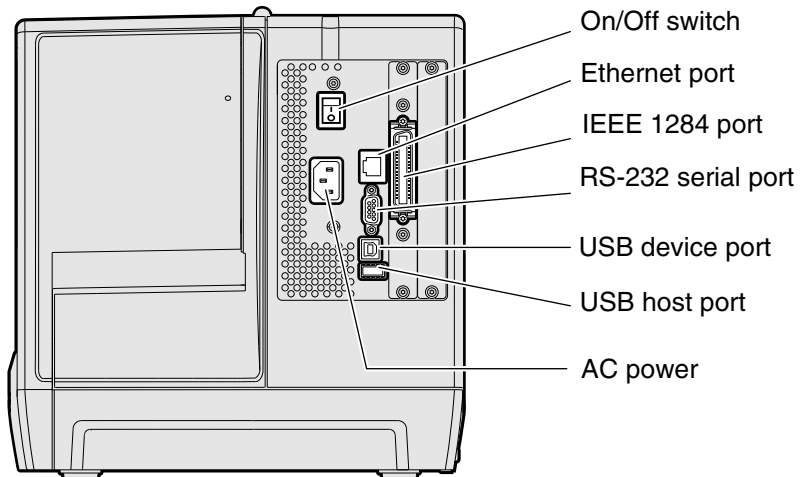
*PM42 Back View*

# About the Front Panel

The front panel includes the Ready-to-Work indicator, the Print button, navigation buttons, and a screen.



Screen

Navigation buttons

Ready-to-Work indicator

Print button
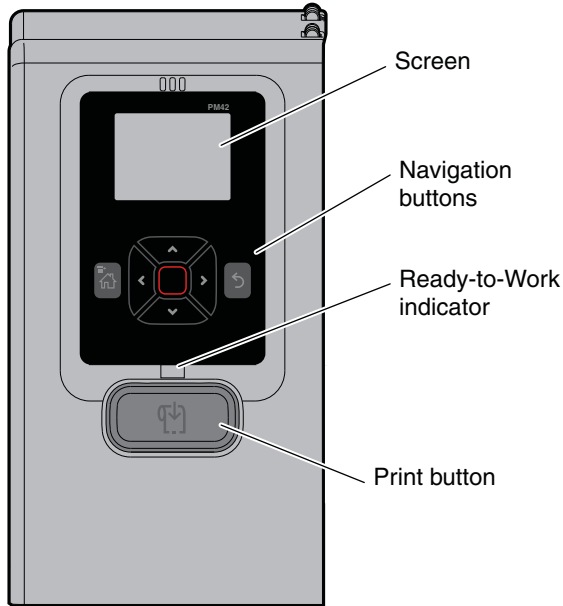
**PM42 Front Panel**

# About the Ready-to-Work Indicator

The Ready-to-Work indicator turns on when the printer is ready to print.

**Ready-to-Work Indicator Status**

| Status | Description |
| --- | --- |
| On | Printer is ready for a print job. |
| Blinking | Printer is not ready for a print job. |
| Off | Printer is turned off, not communicating, or not ready to print. For example, the printer may still be starting up, or a firmware upgrade is underway. |

# About the Print Button

Use the Print button to start and stop print jobs and feed media.

***Print Button Behavior***

| Printer State | Print Button Behavior |
|---|---|
| Starting | • Press the **Print** button to enter Calibration mode.<br>• If the printhead is lifted, press the **Print** button to restore default settings. |
| Ready | • Press the **Print** button to advance media.<br>• Press and hold the **Print** button for more than two seconds to perform a test feed.<br>• If the print key feature is enabled, press the **Print** button to reprint the last print job. |
| Printing | Press the **Print** button to stop or pause printing. The printer will stop after it completely prints one label. |
| Paused | Press the **Print** button to resume printing. |
| Error | Press the **Print** button to advance media if possible. |

# About the Navigation Buttons

Use the navigation buttons to move through the screen.

***Navigation Buttons***

| Button | Description |
|---|---|
| | Menu/Home button. Toggles between the Ready screen and the Main Menu. If you create menu shortcuts, the Main Menu is replaced by the Quick Choices menu. The Main Menu appears as the first item in the Quick Choices list. For help, see **"Create Menu Shortcuts" on page 45**. |
| | Directional pad. Use the arrow buttons (⌃, ⌄, ‹, or ›) to highlight an item on the screen. Press the Enter (■) button to select the highlighted item or save settings in a menu or list. |
| | Back button. Returns to the previous menu or page, or stops a running Fingerprint application. |

# About the Ready Screen

After the printer completes the startup process, the Ready screen appears. By default, the screen displays the printer command language. You can customize the screen to display different kinds of information.
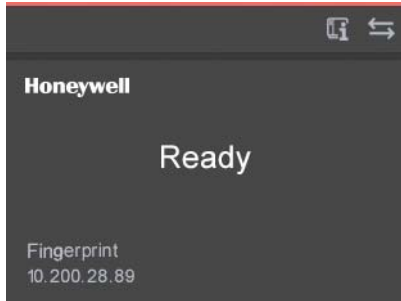


**Ready Screen**

The status bar at the top of the screen displays information and status icons.

*Information and Status Icons*

| Icon | Description |
| --- | --- |
|  | Printer Information. Select this icon to view basic printer information. |
|  | Connectivity. Blinks when data is moving through a wired connection to the printer. |

# About the Main Menu

The Main Menu contains features to help you configure and manage your printer.

**Note:** The printer cannot print while the Main Menu is on the screen.
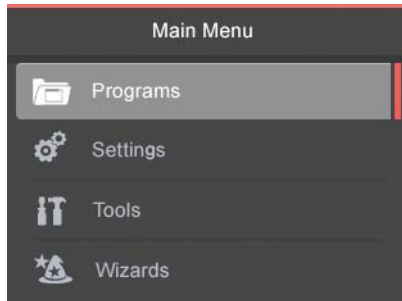


*Main Menu Items*

| Item | Description |
|------|-------------|
| | Programs. Lists the programs installed on the printer. This list includes utility programs provided as part of the printer firmware, as well as programs you installed on the printer. The Programs menu item only appears if the printer command language is set to Fingerprint. |
| | Settings. Lets you view and change printer settings. |
| | Tools. Lets you print test labels, manage a connected USB storage device, restore printer default settings, save and load printer profiles, and configure menu item shortcuts. |
| | Wizards. Lists the wizards you can use to configure printing, communications, and calibration. |

# About the Onscreen Keypads

When you select a setting that requires you to type characters, an alphanumeric or numeric keypad appears.
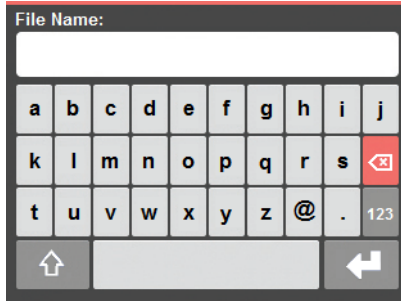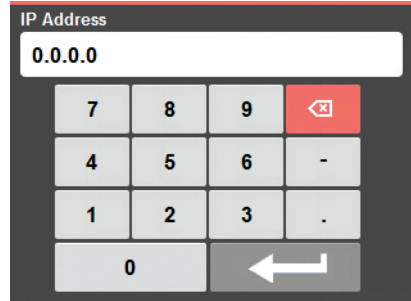


*Alphanumeric Keypad*          *Numeric Keypad*

To access the extended numeric keypad, select the 123 key on the alphanumeric keypad.



*Extended Numeric Keypad*

# About the Printer Wizards

The printer wizards can help you quickly configure printing and communications settings.
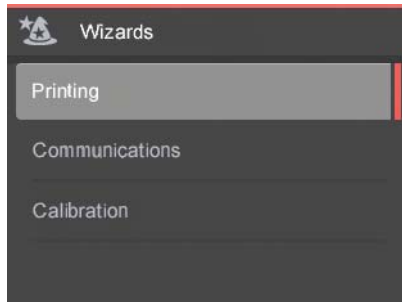


### *Printing Wizards*

| Name | Description |
| --- | --- |
| Media Setup | Select media and printing type (DT or TTR), media width, length, media margin (X), Start and Stop Adjust values, and print speed. |
| Print Quality | Prints a series of labels to test print quality. |
| Loading Media | Shows how to load media. |
| Loading Ribbon | (TTR printers only) Shows how to load a roll of ribbon. |

### *Communications Wizard*

| Name | Description |
| --- | --- |
| Line Analyzer | Logs all incoming data on all communications channels and saves the data to a log file. |

### *Calibration Wizards*

| Name | Description |
| --- | --- |
| Media | Calibrates the label stop sensor and displays current print settings. |
| Date & Time | Calibrates date and time settings, such as time zone. Lets you set the date and time and specify the format. |

# About Printer Command Languages

A printer command language is a set of instructions that controls printer functions:

- Configure the printer.
- Return the status of the printer.
- Control peripheral devices.
- Format a label or receipt for printing.

The printer supports these command languages and language simulator support options:

- Fingerprint (default)
- Direct Protocol
- IPL (Intermec Printer Language)
- ZSim (Zebra Programming Language, ZPL, command language simulator)
- DSim (DPL command language simulator)
- Smart Printing

## About Fingerprint

Fingerprint is a BASIC-inspired general purpose printer language. Use Fingerprint to design custom label formats and write printer application software. If you plan to run Smart Printing applications directly on the printer, without connecting to a PC, select Fingerprint as your printer command language. For more information, see the **Fingerprint Command Reference**.

## About Direct Protocol

Direct Protocol (DP) is a subset of Fingerprint that uses a more intuitive English-like syntax. This flexible host-based printer command language can also be used with Smart Printing applications. Direct Protocol lets you combine predefined layouts and variable data to create labels, tickets, and tags. If you are using bar code software, like BarTender, select Direct Protocol as your printer command language.

# About IPL

IPL (Intermec Printer Language) is a host-based printer command language. Use IPL to design, modify, and download label formats; write printer application software; and configure the printer. If you are sending IPL label files to the printer, select IPL as your printer command language. For more information, see the **IPL Command Reference**.

# About ZSim

ZSim (ZPL command language simulator) interprets Zebra™ programs (ZPL II or later) without requiring any host programming changes. If you are sending ZPL label files to the printer, select ZSim as your printer command language. For more information, see the **ZSim Command Reference**.

# About DSim

DSim (DPL command language simulator) interprets Datamax™ data streams without requiring any host programming changes. If you are sending DPL label files to the printer, select DSim as your printer command language. For more information, see the **DSim Command Reference**.

# About Smart Printing

Smart Printing refers to the ability of the printer to independently run printing operations without being connected to a host computer. If you are running printer-based applications written in C#, select Smart Printing as your printer command language.

# How to Set the Printer Command Language

Use one of these methods to change the printer command language:

- Main Menu
- Printer Web page
- PrintSet 5. For help, see **"Configure the Printer with PrintSet 5" on page 37**.

# Set the Command Language from the Main Menu

You can use the Settings option from the Main Menu to change the printer command language.

1 From the Main Menu, select **Settings** > **System Settings** > **General**.

2 Press ⌄ to scroll down to Command Language.

3 Press ❯ or ❮ to select a different command language.

4 Press ⬛ to save your changes.

If you are prompted to enter a password for DSim, the password is 1138. To return to the Fingerprint menu system from DSim, the password is 8311.

5 Turn the printer off and then on. The printer starts up in the command language you selected.

# Set the Command Language from the Printer Web Page

To set the command language from the printer web page, you need to turn on the printer and connect to your Ethernet network.

1 Make sure that the printer has media and ribbon (if necessary) installed.

2 On your PC, open a Web browser.

3 In the **Location** or **Address** bar, type the printer IP address and press **Enter**. The printer web page appears.

4 Click **Login**. The Login page appears.

5 Type your **Username** and **Password** and click **Login**. The default username is itadmin and the default password is pass.

6   Click the **Configure** tab.

7   Click **System Settings** > **General**.

8   Select a different printer command language from the Command Language list, and then click **Save**.

9   Click the **Services** tab.

10  Click **Reboot Printer**, and then click **Reboot**. The printer restarts in the command language you selected.

# Printer Options and Accessories

You can use these printer options and accessories (sold and ordered separately) with the PM42 printer. Most options are either installed at the factory or by factory service technicians in the field. Accessories are designed to be installed by the customer.

*PM42 Options and Accessories*

| Option or Accessory | Description |
| --- | --- |
| Collapsible Core | Use the collapsible core accessory to easily remove ribbon from the takeup hub. |
| Large Edge Guide | Use the large edge guide to make sure that large rolls of media stay on the hanger. |

### PM42 Options and Accessories

| Option or Accessory | Description |
|---|---|
| Parallel Port (IEEE 1284) Interface Board | Use the parallel port interface board option to add a parallel port to the back of the printer. The parallel port supports Universal Plug and Play (UPnP), compatibility, nibble, byte, ECP, and additional status reporting through IEEE 1284 nibble ID mode. |
| Ribbon Module | Use the ribbon module option for thermal transfer ribbon (TTR). |

# 2

# Set Up the Printer

This chapter describes how to set up the printer and includes information about how to load media and ribbon, print a test label, and calibrate and adjust the printer.

# About Media

The PM42 can print on labels, tickets, tags, and continuous media stock.

## About Tear-Off Printing

For tear-off printing, you manually tear printed labels, tickets, and other printed media from the front of the printer. You can use these types of media for tear-off printing:

- Non-adhesive continuous stock
- Self-adhesive continuous stock with liner
- Self-adhesive labels with liner
- Tickets with gaps, with or without perforations
- Tickets with black marks, with or without perforations

## Load Media for Tear-Off Printing

1  Open the media cover.

2  Turn the printhead lift lever counterclockwise to raise the printhead.
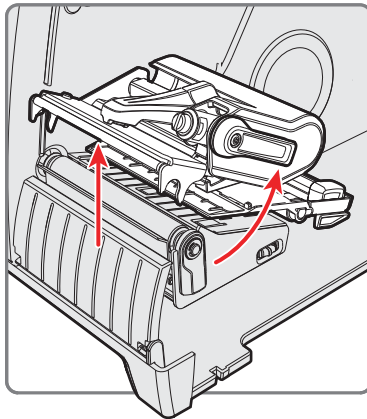
**3** Load a media roll onto the media supply hub. Make sure you push the roll all the way against the inner wall of the printer and adjust the edge guide and the dancer guide to hold the media in place.
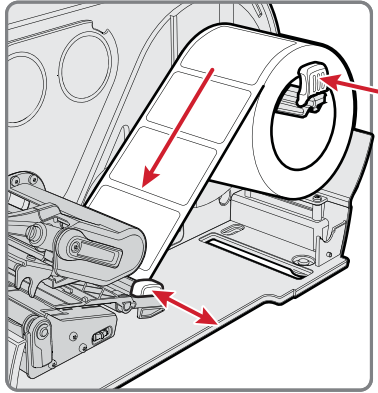


**4** Route the media through the print mechanism.

**5** Adjust the printhead balance. For help, see **"Adjust the Printhead Balance" on page 70**.

**6** Turn the printhead lift lever clockwise to close the printhead.

**7** Adjust the label gap and black mark sensor. The sensor LED should line up with the center of the media. For help, see **"Adjust the Label Gap and Black Mark Sensor" on page 72**.

**8** Close the media cover.

**9** Press the **Print** button to advance the media.

**10** Configure the printer for the correct media type (media with gaps, black mark, continuous fixed length, or continuous variable length).

**11** Calibrate the sensors:

- From the printer Main Menu select **Wizards** > **Calibration** > **Media**.

- From the printer web page select **Services** > **Media Calibration**.

**12** Configure the start and stop adjust settings.

# Load Media from an External Supply

You can place the media supply, such as fanfold tickets or tags, behind or underneath the printer.

**1** Open the media cover.

**2** Turn the printhead lift lever counterclockwise to raise the printhead.
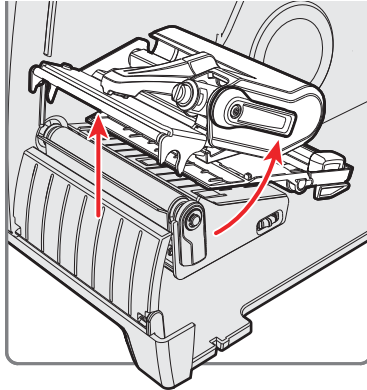
**3** Feed media through the slot in the back of the printer (or from the slot in the bottom of the printer) and route it through the print mechanism.
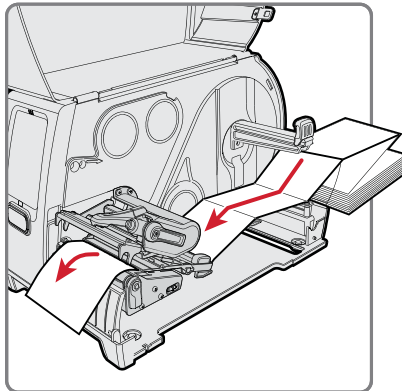
**4** Turn the printhead lift lever clockwise to close the printhead.

**5** Close the media cover.

**6** Press the **Print** button to advance the media.

**7** Configure the printer for the correct media type: media with gaps, black mark, continuous fixed length, or continuous variable length.

**8** Calibrate the sensors:

- From the printer Main Menu select **Wizards** > **Calibration** > **Media**.
- From the printer web page select **Services** > **Media Calibration**.

# About Ribbon

Thermal transfer printing provides a durable printout that is less vulnerable to chemicals, heat, and sunlight than direct thermal printing. Make sure you select a ribbon type that matches the media you are using and that you configure the printer for thermal transfer media.

The printer supports thermal transfer ribbon rolls with the ink-coated side facing either inward or outward. To determine which type of ribbon you have, use a pen or other sharp object to scratch through the ribbon against a piece of paper. If you see a mark on the paper, your ribbon is wound ink out.
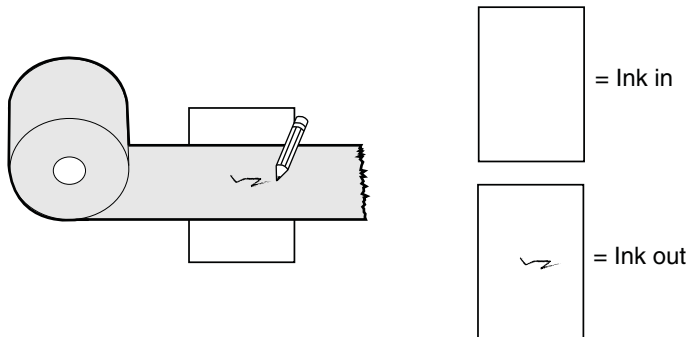


*How to Determine if Your Ribbon is Wound Ink In or Ink Out*

# Load Ribbon

**1** Open the media cover.

**2** Turn the printhead lift lever counterclockwise to raise the printhead.
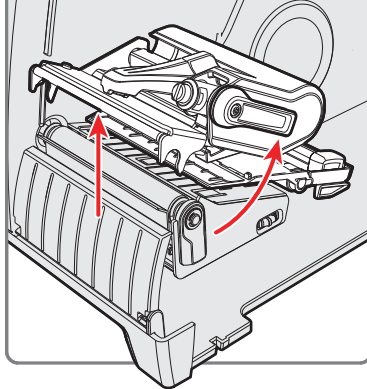


**3** Slide the ribbon roll onto the ribbon supply hub and slide the empty ribbon core onto the ribbon takeup hub:

- For ribbon that has the ink wound out, place the ribbon on the supply hub with the ribbon wound clockwise.

- For ribbon that has the ink wound in, place the ribbon on the supply hub with the ribbon wound counterclockwise.
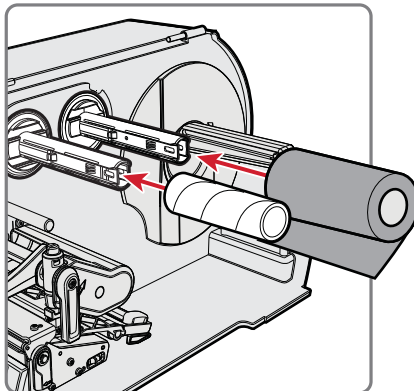


*The ribbon in this illustration has the ink wound out.*

**4** Route the ribbon through the print mechanism and pull out approximately 20 cm (8 inches) of ribbon leader.
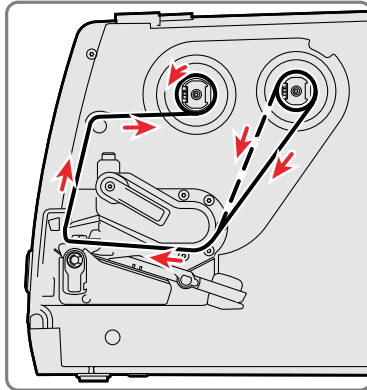


*The dashed line shows how to load ribbon with the ink wound in.*

**5** Turn the ribbon takeup hub counterclockwise until the ribbon becomes tight and runs wrinkle-free through the print mechanism.

**6** Load media.

**7** Turn the printhead lift lever clockwise to lower the printhead.

**8** Close the media cover.

**9** Press the **Print** button to advance the media.

**10** Configure the printer for the correct media type: media with gaps, black mark, continuous fixed length, or continuous variable length.

**11** Set the print method to ribbon (TTR).

**12** Calibrate the sensors:

- From the printer Main Menu select **Wizards** > **Calibration** > **Media**.

- From the printer web page select **Services** > **Media Calibration**.

# Connect the Printer to Power

The first time you turn on the printer, the Startup Wizard appears.

**1** Connect one end of the power cord to the back of the printer and connect the other end to AC power.

**2** Press the power switch. When the printer starts, a progress bar appears on the screen, and then the Startup Wizard appears.

**3** Follow the instructions to configure basic printer settings.

**4** Run another wizard to configure more printer settings, or go to the Ready screen.

If a condition occurs that will prevent printing, the Ready-to-Work indicator blinks.

# Print a Test Label

After you load media and ribbon, print a test label to verify that everything is installed correctly and to get printer information.

**1** From the Main Menu, select **Tools** > **Test Labels**.

**2** Select the label you want to print and press ⬛. The printer prints your test label.

# How to Create and Print Labels

Use one of these methods to create and print labels:

• Use Honeywell printer software. You can download label design software and printer drivers from **http://www.honeywellaidc.com**.

• Use the Fingerprint or IPL printer command language. For help, see the **Fingerprint Command Reference** or the **IPL Command Reference**.

# 3
# Connect the Printer

You can connect your printer to a PC or network.

# About Printer Drivers

Before you can use the printer with Microsoft Windows printing applications, you need to install printer driver software on the PC. Drivers enable the printer to communicate with your PC and with software applications, such as Honeywell PrintSet 5.

**Note:** Although Windows may auto-detect the printer when you connect it to a PC through a USB port, you still need to install printer drivers on the PC for the printer to operate correctly.

# Install Printer Drivers

Use InterDriver to install printer driver software on your PC.

1   Open a web browser and go to **www.honeywellaidc.com**.

2   Select **Products** > **Printers and Media** > **PM42**.

3   Click the **Software** tab.

4   In the Drivers list, click the link to install the latest version of **InterDriver**.

5   Follow the instructions to install InterDriver.

   The installer unpacks and installs the InterDriver files in the Honeywell\InterDriver folder in your program files directory and creates two shortcuts in the Windows Start menu:

   • Honeywell > InterDriver > InterDriver Wizard

   • Honeywell > InterDriver > Check for Updates

# How to Connect the Printer to Your PC

Use one of these cables to connect the printer to your PC:

• Serial cable

• USB cable

• IEEE 1284 parallel printer adapter cable (optional)

# Connect the Printer with a Serial Cable

You can use a serial connection to communicate with your PC and to run PrintSet or InterDriver. You can also use the serial port to send commands directly to the printer through a terminal connection.

**1** Connect one end of the DB9 to DB9 RS-232 cable to the back of your printer and connect the other end of the cable to a serial COM port on the PC.

**2** If necessary, change the PC serial port configuration to match your printer.

# Connect the Printer with a USB Cable

Honeywell recommends that you only connect one printer to your PC, either directly or through a hub. You do not need to set up any parameters for USB communications.

**1** Download and install the InterDriver software on your PC.

**2** Connect one end of the USB Type A cable to the back of the printer and connect the other end to your PC.

# Connect the Printer with an IEEE 1284 Cable

If you have the parallel port option installed, you can connect to your PC with an IEEE 1284 parallel cable.

**Note:** You must configure all printer settings through the printer Main Menu, the printer web page, or with PrintSet 5 and a USB connection before you use the parallel port connection.

**1** Connect one end of an IEEE 1284 cable to the parallel port interface adapter on the back of the printer.

**2** Connect the other end of the cable to the parallel port on your PC.

# Connect the Printer to an Ethernet Network

When the printer is connected to your network, you can send commands directly to the printer through a terminal connection (Telnet) or send instructions through FTP. When you turn on the printer, it automatically retrieves an IP address from the network (DHCP).

- Connect the Ethernet cable to the Ethernet port on the back of the printer and connect the other end of the cable to your network:

    - If your network uses a DHCP server to assign IP addresses, the IP address appears in the lower left corner of the screen.

    - If your network does not use a DHCP server to assign IP addresses, you need to set a static IP address and other network information manually. From the Main Menu, select **Settings** > **Communications** > **Ethernet** > **IPv4** or **IPv6** and configure the necessary settings.

# About the USB Ports

The printer has a USB host port and a USB device port. You can connect peripheral devices to either USB port.

*USB Peripheral Devices*

| Device | Description |
|---|---|
| Keyboard | Use a standard USB keyboard to send Fingerprint printer language commands directly to the printer or to enter information if you are running a Smart Printing application. |
| Bar code scanner | Use Honeywell USB bar code scanners for data input with a Smart Printing application. The printer also supports other USB scanners that use a generic keyboard driver. |
| USB storage device | Use a USB storage device to load applications, configuration files, fonts, and images to the printer memory, or to perform firmware upgrades. You can also save configuration files to a USB storage device to upload to a printer. The USB storage device must have a single partition and be formatted as FAT16 or FAT32. |

# Connect a USB Storage Device

You can insert a USB storage device into the USB host port on the back of the printer.

1  Make sure the device has a single partition and is formatted as FAT16 or FAT32.

2  Connect the device to the USB host port.

3  From the Main Menu, select **Tools > USB Menu** for more options.

# 4
# Configure the Printer

This chapter describes the configuration menu on the printer and the different methods you can use to configure the printer.

# About the Printer Configuration Menus

Whether you access the printer configuration menus from the printer web page or the printer Main Menu, the structure of the menus is the same:

- Communications
- Printing
- System Settings
- Network Services

Use the next illustrations to learn where information is located in the printer configuration menus. Not all configuration items appear in each interface.



*Communications Menu*

| COM1 | COM2 | COMn |
|---|---|---|
| Baud Rate | Baud Rate | Baud Rate |
| Data Bits | Data Bits | Data Bits |
| Parity | Parity | Parity |
| Stop Bits | Stop Bits | Stop Bits |
| Hardware | Hardware | Hardware |
| ENQ/ACK | ENQ/ACK | ENQ/ACK |
| XON/XOFF To | XON/XOFF To | XON/XOFF To |
| XON/XOFF From | XON/XOFF From | XON/XOFF From |
| New Line Character | New Line Character | New Line Character |

*Serial Communications Menu*

```
                    ┌──────────────┐         ┌──────────────┐
                    │    Media     │─────────│ Print Quality│
                    └──────┬───────┘         └──────┬───────┘
                           │                        │
              ┌────────────────────┐   ┌────────────────────┐
            ──│     Media Type     │ ──│     Print Speed     │
              └────────────────────┘   └────────────────────┘
              ┌────────────────────┐   ┌────────────────────┐
            ──│    Print Method    │ ──│  Media Sensitivity  │
              └────────────────────┘   └────────────────────┘
              ┌────────────────────┐   ┌────────────────────┐
            ──│  Media Margin (X)  │ ──│      Darkness       │
              └────────────────────┘   └────────────────────┘
              ┌────────────────────┐   ┌────────────────────┐
            ──│    Media Width     │ ──│      Contrast       │
              └────────────────────┘   └────────────────────┘
              ┌────────────────────┐
            ──│    Media Length    │
              └────────────────────┘
              ┌────────────────────┐
            ──│    Clip Default    │
              └────────────────────┘
              ┌────────────────────┐
            ──│    Start Adjust    │
              └────────────────────┘
              ┌────────────────────┐
            ──│    Stop Adjust     │
              └────────────────────┘
              ┌────────────────────┐
            ──│Media Calibration Mode│
              └────────────────────┘
              ┌────────────────────┐
            ──│ Length (Slow Mode) │
              └────────────────────┘
              ┌────────────────────┐
            ──│  Power Up Action   │
              └────────────────────┘
              ┌────────────────────┐
            ──│  Head Down Action  │
              └────────────────────┘
```

*Printing Menu*

```
┌─────────────┐   ┌─────────────┐   ┌─────────────┐   ┌──────────────────┐
│   General   │───│   Display   │───│ Manage I/O  │───│ Manage Services  │
└──────┬──────┘   └──────┬──────┘   └──────┬──────┘   └────────┬─────────┘
       │                 │                 │                   │
   System Name       Brightness         Ethernet          Web Server
   System Location   Idle Information                      FTP
   System Contact    Time Format                           Avalanche
   XML Response Mode Date Format                           Net1
   Display Language  Menu Access                           SmartSystems
   Keyboad Input     PIN                                   SNMP
   Time              Screen Timeout                        LPR
   AM/PM             Feed Key Access                       IKEv2
   Date              Information Access                    SSH
   Command Language                                        Telnet
   Alert Notification                                      XML
   Method                                                  Time Server
   Unit of Measure
   Zero with Slash
   Time Zone
   DST Adjust
```

*System Settings Menu*

**Network Services Menu**

# How to Configure the Printer

Use one of these methods to view and change printer configuration settings:

- Main Menu
- Printer Web page
- PrintSet 5
- Programming commands
- SmartSystems

## Configure the Printer from the Main Menu

You can view or change settings from the Settings menu on the printer.

**1** From the Main Menu, select **Settings** and press ■. The Settings menu appears.

**2** Select the settings you want to configure and make your changes.

**3** When prompted, save your changes.

## Restrict Access to the Main Menu

The first time you turn on the printer, all menus are available from the Main Menu. You can restrict access to the Main Menu, as well as menus on a USB flash drive by requiring a PIN to access menus, or you can disable access to all menus.

**1** From the Main Menu, select **Settings** > **System Settings** > **Display**.

**2** Select a **Menu Access** option:

- **Enable** (default): All users can access menus from the Main Menu and from a USB flash drive menu.

- **Enable with PIN**: Users need to enter a PIN to access the Main Menu or a USB flash drive menu.

- **Disable**: Users cannot access menus from the Main Menu or from a USB flash drive menu.

**3** If you select **Enable with PIN**, type in a **PIN**.

**4** Save your changes.

# Configure the Printer from the Web Page

If you are using Ethernet communications, you can change configuration settings from the printer Web page.

**1** Connect your printer to your network and obtain an IP address.

**2** On your PC, open a Web browser.

**3** In the **Location** or **Address** bar, type the printer IP address and press **Enter**. The printer web page appears.



**4** Click **Login**. The Login page appears.

**5** Type your **Username** and **Password**. The default username is `itadmin` and the default password is `pass`.

**6** Click **Login**.

**7** Click the **Configure** tab.
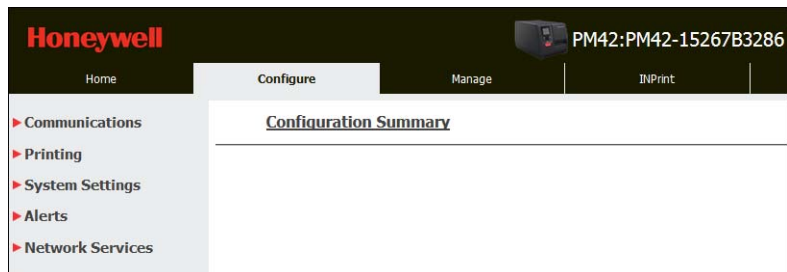


**8** (Optional) To see a complete list of your printer settings, click **Configuration Summary**.

**9** Configure printer settings:

    **a** Click a menu item in the navigation pane on the left.

    **b** To change settings, type information in the fields or select an item from a list.

**10** Click **Save**.

**11** (Optional) To create a configuration profile that you can load at any time, click **Save As Profile**, type a name for the profile, and click **Save**.

**12** (Optional) To reset all values and options on the page the their default settings, click **Default Settings**.

# Configure the Printer with PrintSet 5

PrintSet 5 is a printer configuration tool that lets you easily change printer settings.

**1** Make sure that you have Windows XP or later running on your PC.

**2** Download PrintSet 5 from to **www.honeywellaidc.com**.

**3** Connect your printer to your PC using a serial, USB, or Ethernet connection.

**4** Use PrintSet to add your printer to PrintSet and configure printer settings.

# How to Configure the Printer with Programming Commands

You can send programming commands from your PC to the printer through a terminal program (such as HyperTerminal), a serial connection, or a network connection:

• If your printer uses the Fingerprint programming language, use the SETUP GET command followed by the node, subnode, and parameter setting. For example, this Fingerprint command changes your media setting to labels with gaps:

```
SETUP GET "MEDIA,MEDIA TYPE,LABEL (W GAPS)"
```

You must log in as an itadmin to perform a SET operation, but you do not need to log in to perform a GET operation. For more information, see the **Fingerprint Command Reference**.

- If your printer uses the IPL programming language, include commands between the start of text character <STX> and end of text character <ETX>. For example, this IPL command changes your media setting to labels with gaps:

  ```
  <STX><SI>T1<ETX>
  ```

  For more information, see the **IPL Command Reference**.

# How to Configure the Printer with SmartSystems

SmartSystems is a device management tool that you can use to configure printer settings. The printer ships loaded with the SmartSystems client. The console is part of SmartSystems and is available from **www.intermec.com/products/smrtsysfoundation/index.aspx**.

# About Printer Profiles

After you change printer default settings to meet your needs, you can save those settings as a printer profile. The printer supports multiple profiles that you can save and load at any time. For example, you can create one profile to use when you are printing on continuous label stock, and a different profile to use when you are printing on label stock with gaps.

These printer settings are not saved in a profile:

- IP address for either IPv4 or IPv6 networks
- Media calibration settings for the label stop sensor
- Remote port or remote host values for a remote computer accessing the printer through raw TCP

# Save a Printer Profile from the Web Page

From the printer Web page, you can save printer settings as a profile that you can load from the printer memory at any time.

1 Log in to the printer Web page. For help, see **"Configure the Printer from the Web Page" on page 36**.
2 Click the **Configure** tab.
3 Select **System Settings** > **General**.
4 Click **Save As Profile**.

    **5**  In the **Profile** field, type a name for the profile and click **Save**. The profile is saved to the printer memory.

# Load a Printer Profile from the Web Page

You can load a saved profile from the printer Web page.

**1**  Log in to the printer Web page. For help, see **"Configure the Printer from the Web Page" on page 36**.

**2**  Click the **Manage** tab.

**3**  Click **Profiles**. The printer profiles that are saved in the printer memory appear in the Resident list.

**4**  Load a profile to the printer:

- To load a profile from the printer memory, select the profile from the Resident list and click **Activate**.

- To load a profile from another location; click **Browse** and browse to the location of the file, double-click the file, and click **Upload**.

When the upload is finished, a "Complete" message appears on the screen.

# Save a Printer Profile from the Main Menu

From the Main Menu, you can save the current printer settings as a profile that you can load from the printer memory at any time.

**1**  From the Main Menu, select **Tools** > **Profiles**.

**2**  Select **Create** and press ■.

**3**  Select the **File Name** box and press ■.

**4**  Use the onscreen keypad to enter a file name (up to 16 characters). When you are finished, select on the keypad to return to the Create Profile screen.

**5**  Select the arrow at the bottom of the screen and press ■. The profile is saved to the printer memory.

# Load a Printer Profile from the Main Menu

You can load a saved profile from the Main Menu.

**1**  From the Main Menu, select **Tools** > **Profiles**.

**2**  Select **Load**.

**3**  Select the profile you want to load, and press ■. When the upload is finished, a "Complete" message appears on the screen.

# How to Load a Printer Profile with Programming Commands

You can load a printer profile to another printer by sending programming commands directly from your PC to the printer through a terminal program (such as HyperTerminal), a serial connection, or a network connection. All commands are case-sensitive.

**Note:** You may need itadmin rights to change some communication settings. To load printer profiles that modify these settings, you must log in as an itadmin: RUN "su -p pass itadmin".

### Programming Commands to Load a Printer Profile

| Connection | Command |
|---|---|
| Printer running Fingerprint | RUN "/system/usr/bin/cfg -o xmlimportset -k /home/user/profiles/myprofile" |
| Printer running IPL | <STX><ESC>.x,/system/usr/bin/cfg -o xmlimportset -k /home/user/profiles/myprofile<ETX> |
| Telnet connection over Port 23 | /system/usr/bin/cfg -o xmlimportset -k /home/user/profiles/myprofile |

# How to Upload Files to the Printer

You can upload these types of files to the printer:

• Fonts
• Images
• Applications
• Formats
• Web forms

You can only delete fonts, images, applications, and web forms that you upload to the printer. You cannot delete files that are installed as part of the printer firmware.

Use one of these methods to upload files to the printer:

• Printer Web page
• USB Storage Device
• PrintSet 5. For help, see the user guide that ships with the software.

# Upload Files from the Web Page

Use the printer Web page to upload files to the printer and install fonts, images, applications, formats, and Web forms.

**1** Log in to the printer Web page. For help, see **"Configure the Printer from the Web Page" on page 36**.

**2** Click the **Manage** tab.

**3** Click a menu item in the navigation pane on the left. The upload page for the item you selected appears. For example, if you click **Fonts**, this upload page appears.
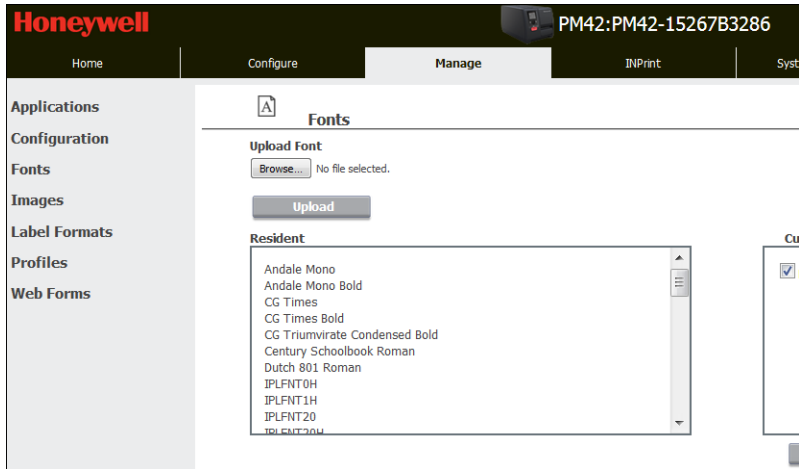


**4** Click **Browse** and navigate to the location of the file you want to upload.

**5** Select the file and click **Open**.

**6** Click **Upload**. The file is uploaded to the printer.

# How to Set Up a USB Storage Device to Upload Files to the Printer

To upload files to your printer from a USB storage device, you need to put the files in a specific directory on the USB storage device. Make sure the USB storage device has a single partition and is formatted as FAT16 or FAT32.

*File Type Directories for the USB Storage Device*

| File Type | Directory to Place the File | Installed in this Printer Directory |
| --- | --- | --- |
| Application | /apps | /home/user/apps |
| Configuration | /config | |
| Configuration profile | /profiles | /home/user/profiles |
| Display images | /display | /home/user/display |
| Fingerprint script | /scripts | /home/user/scripts |

*File Type Directories for the USB Storage Device (continued)*

| File Type | Directory to Place the File | Installed in this Printer Directory |
|---|---|---|
| Firmware | /firmware | |
| Font | /fonts | /home/user/fonts |
| Form/layout | /forms | /home/user/forms |
| Image | /images | /home/user/images |
| Installation package (UFF file) | Root of USB storage device | |
| Start file | Root of USB storage device | |
| Web Form | /webforms | /home/user/webforms |

# Upload Files from a USB Storage Device

Use a USB storage device to upload files to the printer and install fonts, images, applications, formats, and Web forms.

1 Copy your files to the appropriate directory on the USB storage device.

2 Insert the USB storage device into the USB host port on the printer. The USB Device menu appears on the printer screen.

3 Select **Install Resources** and press ■.

4 Upload your files:

- To upload all files on the USB storage device, select **Install All** and press ■.

- To upload a single file, select the type of file you want to install and press ■, and then select the file you want to install and press ■.

5 When the upload is complete, go to the Main Menu and select **Tools** > **USB Menu** > **Remove USB**.

6 Remove the USB storage device.

# Export a Configuration File to a USB Storage Device

You can save an .xml configuration file to a USB storage device and install it on other printers.

1 Make sure the USB storage device has a single partition and is formatted as FAT16 or FAT32.

2 Insert the USB storage device into the printer USB host port.

3 From the Main Menu, select **Tools** > **USB Menu** > **Configuration** > **Export Configuration**. A list of available configuration files appears.

4 Select a file to export and press ■. When the file is successfully exported, a message appears.

5 To close the message, press ■.

6 From the Main Menu, select **Tools** > **USB Menu** > **Remove USB**.

7 Remove the USB storage device.

# Import a Configuration File from a USB Storage Device

You install a saved .xml configuration file from a USB storage device to your printer.

**Note:** If there is more than one configuration file on the USB storage device, the printer imports the file that is first, alphabetically.

1 Insert the USB storage device into the printer USB host port.

2 From the Main Menu, select **Tools** > **USB Menu** > **Configuration** > **Install Configuration**. The printer installs the configuration file:

• IPL configuration files are copied to /home/user/config/ipl.

• All other configuration files are incorporated into the current configuration.

When the file is successfully imported, a message appears.

3 To close the message, press ■.

4 From the Main Menu, select **Tools** > **USB Menu** > **Remove USB**.

5 Remove the USB storage device.

# Change the Background Image for the Ready Screen

You can customize the Ready screen by changing the background image.

**1** Create a background image. The image must be:

- 320 x 234 pixels.
- named background_idle.png.

**2** Copy the image to the /display directory on a USB storage device.

**3** Insert the USB storage device into the USB host port on the printer. The USB Device menu appears on the printer screen.

**4** Use the USB Device menu to upload the image.

# Create Menu Shortcuts

You can create shortcuts for frequently used Main Menu items. Menu shortcuts are added to the Quick Choices menu, which replaces the Main Menu. The Main Menu appears as the first item in the Quick Choices list.

**1** From the Main Menu, select **Tools** > **Quick Choices** > **Add**.

**2** To load a profile:

- Select **Load Profile** and press ■.
- Select **Load Profile** again and press ■. A check mark appears in the box.
- Press ▼ to select the arrow at the bottom of the screen, and press ■.

**3** To select test labels to print:

- Select **Test Labels** and press ■.
- To add the Test Labels menu, select **Test Labels** and press ■. A check mark appears in the box.

  Or, select individual test labels and press ■ after each selection. A check mark appears in each box.

- Select the arrow at the bottom of the screen, and press ■.

**4** To select wizards to run:

- Select **Wizards** and press ■.

- To add the Wizards menu, select **Wizards** and press ■. A check mark appears in the box.

  Or, select individual wizards and press ■ after each selection. A check mark appears in each box.

- Select the arrow at the bottom of the screen, and press ■.

**5** Press ■. The next time you press 🏠 from the Ready screen, the Quick Choices menu (containing the Main Menu and your menu shortcuts) appears.

# Customize the Printer Web Page

You can customize the appearance of the printer Web page by modifying the CSS (Cascading Style Sheet). When you open the Web page, the Web page loads the default style.css and then loads the custom style.css. So, you only need to include the styles that you want to change.

**1** Copy the default style.css from the printer at http://<printerip>/format/style.css.

**2** Modify the CSS and save your changes.

**3** Upload the modified CSS to the printer with this FTP to printer path: /home/user/webpage/style.css.

# 5
# Troubleshoot the Printer

Use this chapter to troubleshoot the printer.

# Contact Support

If you are having trouble using your printer and you cannot find a solution in this user manual or from the Knowledge Base (**www.hsmknowledgebase.com**) or Technical Support Portal (**www.hsmsupportportal.com**), you can contact Customer Support. For our latest contact information, go to **www.honeywellaidc.com/ locations**.

Before you call Customer Support, have this information ready:

- Printer serial number
- Printer configuration number
- Firmware type and version
- Printer command language
- Installed options
- Media settings
- Serial port settings
- Ethernet settings

To find this information, go to the printer Web page or print a test label.

# About Printer System Information

The System Information tab on the printer Web page contains useful information and statistics about the printer hardware and firmware. You may need to provide this information if you contact Support.

# About Printer Statistics

Printer statistics provide a wide range of information about the printer.

*Printer Statistics*

| Statistic Type | Information Available |
|---|---|
| System Information | Printer uptime and CPU usage, firmware and kernel versions, printer config and serial numbers, flash and RAM memory information |
| Print Statistics | Total labels printed, odometer values, total distance printed (printer and current printhead) |
| Supply | Printhead and ribbon information |
| Hardware Options | Input/output devices, serial port information |
| Network Interfaces | MAC address, TCP/IP, and network information |
| Font Information | Name, type, location, and size of installed fonts |
| Bar Code Information | Name and type of installed bar code fonts |
| Image Information | Name, type, location, and size of installed images |

# View Printer Statistics

Use the printer Web page to view printer statistics.

1 Log in to the printer Web page. For help, see **"Configure the Printer from the Web Page" on page 36**.

2 Click the **System Information** tab.

3 Select **Statistics** > **System Information**.



4 To view more statistics, click another item in the **Statistics** list.

# Check Printhead Usage

The printer odometer (available from the printer Web page) provides printhead usage information.

**1** Log in to the printer Web page. For help, see **"Configure the Printer from the Web Page" on page 36**.

**2** Click the **System Information** tab.

**3** Click **Odometer**.



# About Alerts

To help maintain the printer, you can configure the printer to send alert messages when certain conditions occur. For example, the printer can send a message when the odometer reaches a certain value, or if the printhead is lifted during printing.

There are three types of alerts:

• Error alerts

• Information alerts

• Warning alerts

You can enable or disable each type of alert, set the number of times the alert is repeated, set the unit of measure that determines how often the alert is sent, and change the default text message for the alert.

# Set Error, Warning, and Information Alerts

You configure alert settings from the printer Web page.

**1** Log in to the printer Web page. For help, see **"Configure the Printer from the Web Page" on page 36**.

**2** Click the **Configure** tab.

**3** Click **Alerts**.
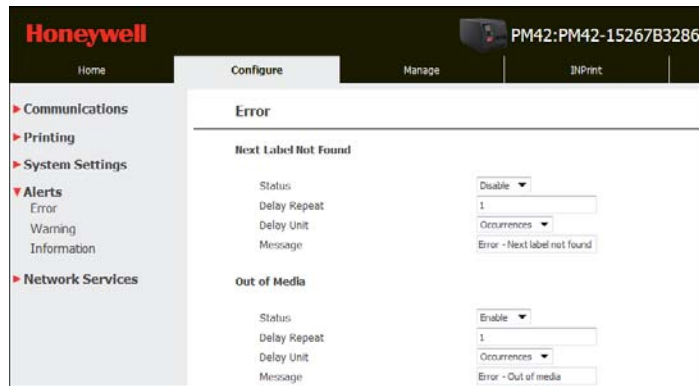


**4** Click a type of alert:

- **Error**
- **Warning**
- **Information**

**5** Configure the settings for each alert.

**6** When you are finished, click **Save**.

# About Maintenance Alerts

You can set maintenance alerts to define the threshold or value at which an alert is sent to you. For example, you can set a value in millimeters printed at which the printer triggers an alert telling you that it is time to clean the printhead.

## Set Maintenance Alerts from the Main Menu

**1** From the Main Menu, select **Settings** > **System Settings** > **Maintenance Alerts**.

**2** Enter the values you want to set for each maintenance alert.

## Set Maintenance Alerts from the Web Page

**1** Log in to the printer Web page. For help, see **"Configure the Printer from the Web Page" on page 36**.

**2** Click the **Configure** tab.

**3** Select **System Settings** > **Maintenance Alerts**.
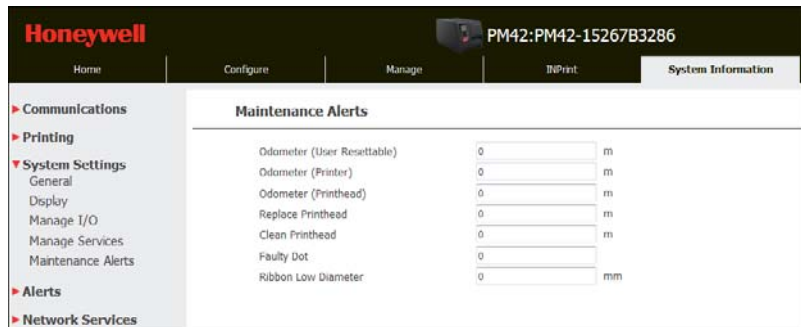


**4** Type the values you want to set for each maintenance alert.

**5** When you are finished, click **Save**.

# How to Configure Error Alert Notifications

Alert messages can be sent to an email address, an SNMP trap, or both.

## Configure Error Alert Notifications from the Main Menu

**1** From the Main Menu, select **Settings** > **System Settings** > **General**.

**2** Select an **Alert Notification Method**:

- **Email**
- **SNMP Trap**
- **SNMP Trap+Email**

## Configure Error Alert Notifications from the Web Page

**1** Log in to the printer Web page. For help, see **"Configure the Printer from the Web Page" on page 36**.

**2** Click the **Configure** tab.

**3** Select **System Settings** > **General**.

**4** Select an **Alert Notification Method**:

- **Email**
- **SNMP Trap**
- **SNMP Trap+Email**

**5** When you are finished, click **Save**.

# Maintenance and Error Alerts

Use this table to find solutions to some common maintenance and error alerts.

*Maintenance and Error Alerts*

| Alert | Solution |
| --- | --- |
| Label Not Taken | Printing has been stopped because a label is obstructing the label taken sensor. Remove the label to resume printing. |
| Printhead Lifted | Lower the printhead. |
| Out of Ribbon | Load ribbon in the printer. |
| Out of Media | Load media in the printer. |
| Ribbon Low | The diameter of the remaining roll of media is lower than the specified value in the Ribbon Low Diameter setting. Replace the ribbon. |
| Media Low | The diameter of the remaining roll of media is lower than the specified value in the Media Low Diameter setting. Replace the media. |
| Ribbon Installed | The printer is configured as a direct thermal printer and thermal transfer ribbon is installed. Remove the ribbon or configure the printer for thermal transfer media. |
| Printer in Pause Mode | A print job is paused from the front panel. Press the **Print** button to resume printing. |
| Printer in Menu Mode | A user entered a menu from the front panel. Press the **Menu/Home** button to return to the Ready screen. |
| Application Break | (Fingerprint only.) An application breaks uncontrolled. |
| Print Job Complete | A print job has been successfully completed. |
| Odometer (Printer) | The printer has reached a limit set in the Odometer (Printer) setting in Maintenance Alerts for the amount of media to print before being alerted. |
| Odometer (Printhead) | The printhead has reached a limit set in the Odometer (Printhead) setting in Maintenance Alerts for the amount of media to print before being alerted. |

*Maintenance and Error Alerts (continued)*

| Alert | Solution |
| --- | --- |
| Odometer (User Resettable) | The printer has reached a limit set in the Odometer (User Resettable) setting in Maintenance Alerts for the amount of media printed since the last reset. |
| Printhead Too Hot | The printhead is overheated and needs to cool down. Wait for printing to resume automatically. |
| Printhead Not Detected | The printer is not detecting the printhead. Check to make sure the printhead is installed and that the printhead cable is firmly connected to the printhead. |
| Faulty Dot | The printhead has reached the number of faulty dots set in the Faulty Dots setting in Maintenance Alerts. You may need to replace the printhead. |
| Replace Printhead | The printer has reached a limit set in the Replace Printhead setting in Maintenance Alerts for the amount of media to print before replacing the printhead. Replace the printhead. |
| Clean Printhead | The printer has reached a limit set in the Clean Printhead setting in Maintenance Alerts for the amount of media to print before cleaning the printhead. Clean the printhead. |
| Upgrading Firmware | The printer is going to start upgrading the firmware. Do not try to send anything to the printer. |
| Printer is Rebooting | The printer is going to restart. Wait until the printer is ready before attempting to communicate with it. |
| Started | The printer is in the process of starting up. |
| Motor Too Hot | The printer motor has reached its maximum operating temperature limit. Let the motor cool down before you resume printing. |

# Problems and Possible Solutions

Use these tables to find possible solutions to printer problems you may encounter.

*Print Quality Problems and Possible Solutions*

| Problem | Possible Solution |
| --- | --- |
| The printout is weak. | Try these possible solutions in order:<br>• Make sure that your media setting is appropriate for the type of media you are using.<br>• The contrast may be too low. Increase the contrast.<br>• The printhead pressure may be too low. Increase the printhead pressure.<br>• Replace the printhead. |
| The printout is weaker on one side. | Adjust the printhead balance. |
| There are weak spots on the printout. | Try these possible solutions in order:<br>• There may be foreign particles on the media. Clean or replace the media.<br>• Make sure that your media and ribbon are compatible.<br>• Make sure that you are using high quality media and ribbon.<br>• The contrast may be too low. Increase the contrast. |
| The printout is dark or there is excessive bleeding on the media. | Try these possible solutions in order:<br>• Make sure your media setting is appropriate for the type of media you are using.<br>• The contrast may be too high. Decrease the contrast.<br>• The printhead pressure may be too high. Decrease the printhead pressure.<br>• The printhead voltage may be incorrect or the energy control may be faulty. For help, contact your Honeywell representative. |
| There are dark lines along the media path. | The printhead may be dirty. Clean the printhead. |

*Print Quality Problems and Possible Solutions (continued)*

| Problem | Possible Solution |
|---|---|
| There are white vertical lines on the printout. | Try these possible solutions in order:<br>• The printhead may be dirty. Clean the printhead.<br>• There may be missing dots on the printhead. Replace the printhead. |
| Part of a dotted line is missing. | Try these possible solutions in order:<br>• The printhead may be failing. Replace the printhead.<br>• The strobe signal may be failing. For help, contact your Honeywell service representative. |
| The inner edge of the printout is missing. | Try these possible solutions in order:<br>• The media may not be properly installed or aligned. Reload the media.<br>• The media margin or X-start parameter may be set too low. Increase the setting. |
| The content on my printout is compressed. | The print speed may be too high. Lower the print speed. |
| Nothing shows up on my thermal transfer printout. | The ink-coated side of the ribbon may not be facing the media. Reload the ribbon. |
| When I feed or print a label, the ribbon is not taken up. Instead, it spills out the front of the printer. | Make sure the Print Method is set to Ribbon (TTR). |
| The ribbon breaks. | Try these possible solutions in order:<br>• Make sure your media setting is appropriate for the type of media you are using.<br>• Make sure that the ribbon is fitted correctly. Reload the ribbon.<br>• The energy control may be faulty. For help, contact your Honeywell Service representative. |

*Print Quality Problems and Possible Solutions (continued)*

| Problem | Possible Solution |
|---|---|
| The ribbon wrinkles. | Try these possible solutions in order:<br>• The ribbon tension bar may not be adjusted correctly. Use a large straight-slot screwdriver to adjust the ribbon tension bar.<br>• You may need to adjust the media edge guide.<br>• The printhead pressure may be too high. Decrease the printhead pressure. |
| The printer is connected to my PC, using a virtual COM port, and printing stops. But, there are no errors to indicate that something is wrong. | Make sure that bidirectional support is disabled. From the printer properties dialog box, click the **Ports** tab, and then clear the **Enable bidirectional support** check box. |
| The printer is connected to a serial port on my PC, but the printer is not working. | Try these possible solutions:<br>• Make sure the serial port settings are configured correctly.<br>• Make sure the serial cable pinouts are correct and that the cable is not damaged.<br>• If you have the Windows driver for an RS-232 printer installed on your PC, uninstall the driver. |

*Networking Problems and Possible Solutions*

| Problem | Possible Solution |
|---|---|
| The Ethernet network connection is not working correctly. | Try these possible solutions:<br>• Make sure your network cable is securely connected to your printer and a straight "pin-to-pin" cable, not a "crossover" cable.<br>• Make sure your PC is correctly configured for and connected to your network.<br>• Make sure your printer is correctly configured for your network. |

*Networking Problems and Possible Solutions (continued)*

| Problem | Possible Solution |
|---|---|
| I cannot connect to the printer web page. | If you are connecting your printer with a crossover network cable, you may need to disable the web browser's proxy settings on your computer to access the printer web page. |

# How to Restore Default Settings

Use one of these methods to restore default settings on the printer:

- Main Menu
- Printer Web page
- Hardware-based reset

## Restore Default Settings from the Main Menu

You can restore default settings from the printer Main Menu.

**1** From the Main Menu, select **Tools** > **Restore Defaults**. All settings that can be restored to their default values are selected.

**2** Clear the check box for the settings that you want to keep:

- Network settings: Restores the current network settings.
- User files: Restores all files you installed on the printer.
- System Settings: Restores all system settings.

**3** Select the right arrow and press ■. A message appears prompting you to restore the default settings and restart the printer.

**4** To select **Yes**, press ■. The selected settings are restored to their default values, and your printer restarts.

## Restore Default Settings from the Printer Web Page

You can restore default settings from the printer Web page.

**1** On your PC, open a Web browser.

**2** In the **Location** or **Address** bar, type the printer IP address and press **Enter**. The printer web page appears.

**3** Click **Login**. The Login page appears.

**4** Type your **Username** and **Password**. The default username is `itadmin` and the default password is `pass`.

**5** Click **Login**.

**6** Select **Services** > **Restore Defaults**.

**7** Select the settings that you want to restore to their default values:

- Network settings: Restores the current network settings.

- User files: Restores all files you installed on the printer,.

- System Settings: Restores all system settings.

**8** Click **Restore**. A message appears prompting you to reboot the printer.

**9** Click **OK**.

**10** Restart your printer.

# Restore Default Settings with a Hardware-Based Reset

You can perform a hardware-based reset to restore all default settings.

**1** Turn the printer off, and open the media cover.

**2** Turn the printhead lift lever counterclockwise to raise the printhead.

**3** Press and hold the **Print** button and turn the printer on.

**4** When the status bar is almost full, release the **Print** button.

All settings are restored to their default values.

**5** Turn the printhead lift lever clockwise to lower the printhead and close the media cover.

# How to Upgrade the Printer Firmware

You should check for periodic updates to the printer firmware. Updated firmware can include bug fixes and new features. The latest version of the firmware is available from the printer software tab page on **www.honeywellaidc.com**.

**Note:** After you upgrade the printer firmware, Honeywell recommends that you restore the default settings and calibrate the media sensors.

Use one of these methods to upgrade the printer firmware:

- Printer Web page
- USB Storage Device
- PrintSet 5. For help, see the user guide that ships with the software.

# Download the Printer Firmware Update

Before you can upgrade the printer firmware, you need to download the upgrade file.

**1** Go to **www.honeywellaidc.com**.

**2** Select **Products** > **Printers and Media** > **PM42**.

**3** Click the **Software** tab.

**4** Download the latest firmware version to your PC.

# Upgrade Firmware from the Printer Web Page

You can upgrade firmware from the printer Web page.

**1** On your PC, open a Web browser.

**2** In the **Location** or **Address** bar, type the printer IP address and press **Enter**. The printer web page appears.

**3** Click **Login**. The Login page appears.

**4** Type your **Username** and **Password**. The default username is itadmin and the default password is pass.

**5** Click **Login**.

**6** Select **Services** > **Firmware Upgrade**.

**7** Click **Browse**, navigate to the location of the upgrade file, select the file, and click **Open**.

**8** Click **Upgrade**. The printer Web page upgrades your printer firmware.

# Upgrade Firmware from a USB Storage Device

You can use a USB storage device to upgrade firmware. Honeywell recommends that you use a blank USB storage device.

**1** Copy the firmware upgrade file to the root directory of the USB storage device.

**2** Turn the printer off.

**3** Insert the USB storage device into a USB host port.

4   Restart your printer. A message appears as the upgrade file is loaded into the printer memory. This process may take a few minutes.

5   From the Main Menu, select **Tools** > **USB Menu** > **Remove USB**.

6   Remove the USB storage device.

# 6
# Maintain the Printer

This chapter describes how to clean, adjust, and replace parts of the printer.

# How to Clean the Printer

To properly maintain the printer, regularly clean these printer parts:

- Printhead
- Media guides
- Exterior of the printer

⚠️ **Caution: To avoid possible personal injury or damage to the printer, never insert any pointed or sharp objects into the printer.**

⚠️ **Caution: Use only the cleaning agents specified in this section. Honeywell is not responsible for damage caused by any other cleaning materials used on this printer.**

⚠️ **Caution: Isopropyl alcohol is a highly flammable, moderately toxic, and mildly irritating substance.**

Follow these guidelines:

- Always remove the power cord before cleaning.
- Never spray the printer with water. Protect it from water when cleaning the premises.
- Never use sharp tools for removing stuck labels. The printhead and rollers are delicate.

## Clean the Printhead

Clean the printhead on a regular basis to extend the life of the printhead and maintain print quality. You should clean the printhead each time you replace the media. The printer ships with a cleaning card, but you can contact your local Honeywell representative to order additional cleaning cards.

⚠️ **Caution: Never use hard or sharp tools to peel away stuck labels or other material. The printhead is delicate and can easily be damaged.**

1  Turn off the printer and disconnect the printer from power.
2  Open the media cover.
3  Remove the media and ribbon (if installed).

4 Insert most of the cleaning card under the printhead, and then lower the printhead.

5 Pull out the cleaning card and raise the printhead.

6 Wait approximately 30 seconds to allow the cleaning fluid to dissolve the residue.

7 Repeat Steps 4 through 6 if necessary.

8 If necessary, clean residue from the platen roller or tear bar with a cotton swab moistened with isopropyl alcohol.

9 After the parts are dry, replace the media (and ribbon).

10 Close the media cover, reconnect power, and turn on the printer.

# Clean the Media Guides

The upper and lower media guides are transparent to allow light to pass between the two parts of the label gap and label mark sensors. Keep these surfaces free of dust, stuck labels, and adhesive residue.

1 Turn off the printer and disconnect the printer from power.

2 Open the media cover.

3 Remove the media and ribbon (if installed).

4 Insert a cleaning card or a soft cloth soaked in isopropyl alcohol between the two media guides to clean them.

5 Wait approximately 30 seconds to allow the cleaning fluid to dissolve the residue.

6 After the parts are dry, replace the media (and ribbon).

7 Close the media cover, reconnect power, and turn on the printer.

# How to Clean the Exterior of the Printer

Keep the exterior of the printer clean to reduce the risk of dust or foreign particles getting inside the printer. Use a soft cloth moistened with water or a mild detergent to clean the exterior of the printer. You should also keep the surface around the printer clean.

# Replace the Printhead

The rapid heating and cooling process used during printing wears out the printhead. How often you need to replace the printhead depends on factors such as the type of images you print, the type of media or ribbon you use, the amount of energy sent to the printhead, the print speed, and the ambient temperature. The firmware detects the new printhead when you restart the printer.

**1** Turn off the printer and disconnect the printer from power.

**2** Open the media cover.

**3** Remove the media and ribbon (if installed).

**4** Turn the printhead lift lever counterclockwise to raise the printhead.

**5** Detach the magnetic pressure arm from the printhead bracket and disconnect the two cables from the printhead as you remove it from the printer.
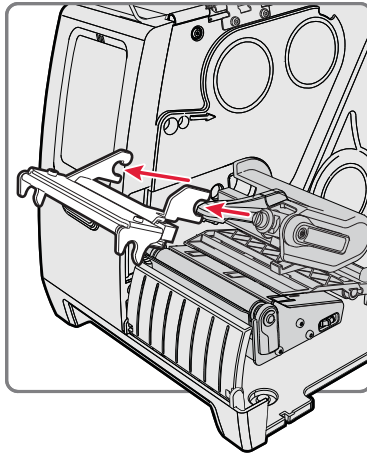
**6** Connect the two printhead cables to the new printhead.
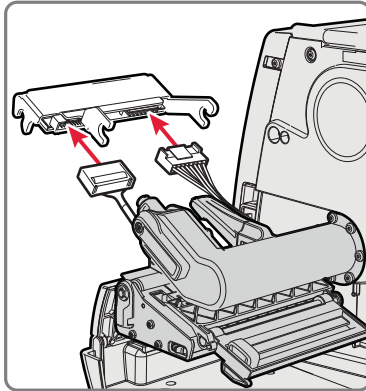


**7** As you insert the new printhead bracket into the printer, make sure the metal arms on the printhead go around the magnetic pressure arm bar. Attach the magnetic pressure arm to the printhead.

**8** Replace the media (and ribbon) in the printer.

**9** Turn the printhead lift lever clockwise to lower it.Close the media cover, reconnect power, and turn on the printer.

# Replace the Platen Roller

Replace the platen roller if it is damaged or worn out. You can store a spare platen roller under the media hanger. Insert the platen roller into the hole under the media hanger and turn the latch counterclockwise to secure it to the base.

**1** Turn off the printer and disconnect the printer from power.

**2** Open the media cover.

**3** Remove the media.

**4** Turn the printhead lift lever counterclockwise to raise the printhead.

**5** Rotate the platen roller latch clockwise to detach it from the printer and pull the platen roller away from the printer.
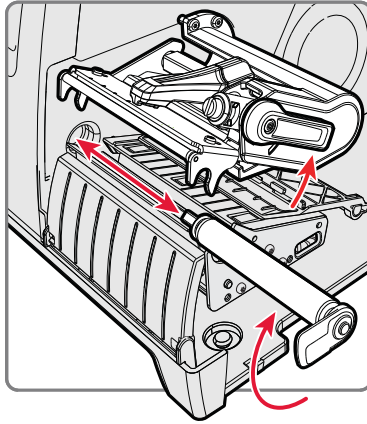


**6** Insert the new platen roller into the printer and turn the latch counterclockwise to secure it.

**7** Reload media and turn the printhead lift lever clockwise to lower it.

**8** Close the media cover, reconnect power, and turn on the printer.

# How to Adjust the Printer

You may need to adjust the printer to improve performance or accommodate your method of printing. You can make these adjustments:

• Ribbon tension

• Printhead balance

• Printhead pressure

• Label gap and black mark sensor

# Adjust Ribbon Tension

If your thermal transfer ribbon is wrinkling, you may need to adjust the ribbon tension bar.

**1** Open the media cover.

**2** Use a large straight-slot screwdriver to adjust the ribbon tension bar:

- To decrease the tension, turn the screw clockwise and move the bar backward.

- To increase the tension, turn the screw counterclockwise and move the bar forward.
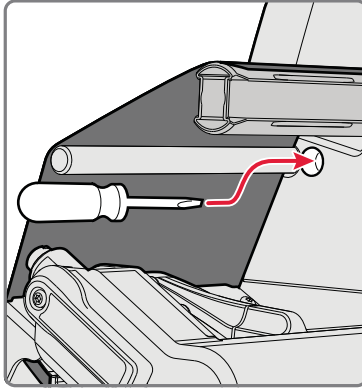
# Adjust the Printhead Balance

The printhead is adjusted for full-width media. If you are using media that is less than full-width (4 inches or 102 mm), adjust the position of the printhead balance arm so that the printhead is correctly pressured against the media.

**1** Open the media cover.

**2** If you have ribbon installed, remove the ribbon.

**3** Turn the printhead lift lever counterclockwise to raise the printhead.

**4** Press down on the blue part of the printhead balance bar and move it:

- outward for wider media.
- inward for narrower media.
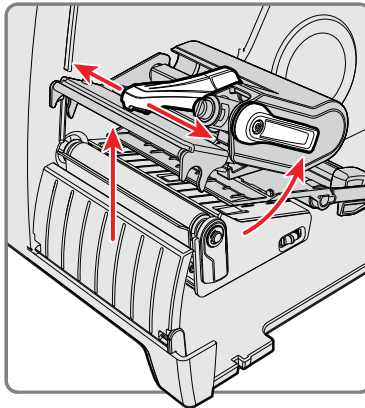


**5** Close the printhead and load the ribbon.

**6** Test and readjust the printhead balance if necessary.

**7** Close the media cover.

# Adjust the Printhead Pressure

You may need to adjust the printhead pressure if you change to thicker or thinner media, your ribbon starts to crease, or if your labels are printing light on one side. Do not use a higher printhead pressure than necessary. It may increase wear on the printhead and shorten its life.

1. Open the media cover.

2. Use a large straight-slot screwdriver to adjust the pressure screw:

   - To increase the pressure and create a darker print, turn the screw clockwise.

   - To decrease the pressure and create a lighter print, turn the screw counterclockwise.
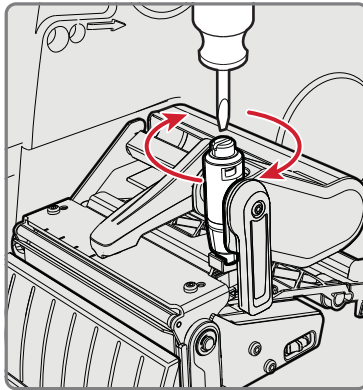


3. Test and readjust the printhead pressure if necessary.

4. Close the media cover.

# Adjust the Label Gap and Black Mark Sensor

The label gap sensor is a transmissive sensor that controls how the printer feeds media by detecting gaps between the labels. The black mark sensor is a reflective sensor that detects black marks on continuous media.

**1** Open the media cover.

**2** Adjust the label gap and black mark sensor. Use the blue LED, which can be seen through the media, to help determine the proper location:

- To move the sensor toward the outside of the printer, turn the sensor adjustment knob counterclockwise.

- To move the sensor toward the inside of the printer, turn the sensor adjustment knob clockwise.
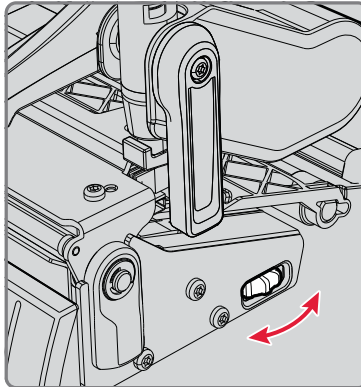
**3** Test and readjust the printhead pressure if necessary.

**4** Close the media cover.

# A
# Specifications

# Printer Specifications

### Physical Specifications

| | |
|---|---|
| Dimensions: | 523.60 x 283.00 x 291.60 mm (20.61 x 11.14 x 11.40 in) |
| Weight: | 12.2 kg (26.6 lbs) |

283 mm
(11.14 in)
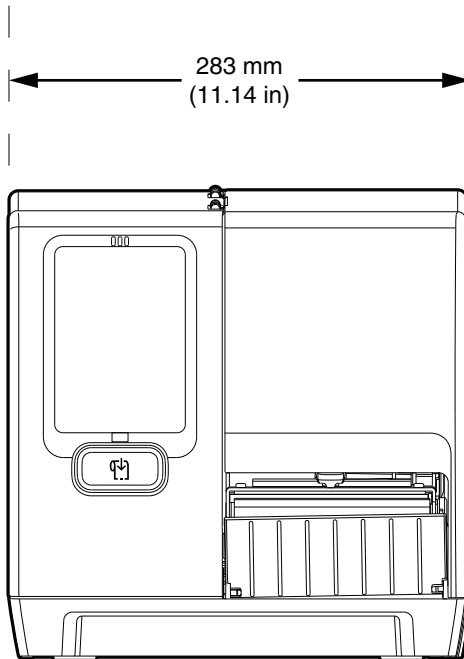
*PM42 Width*
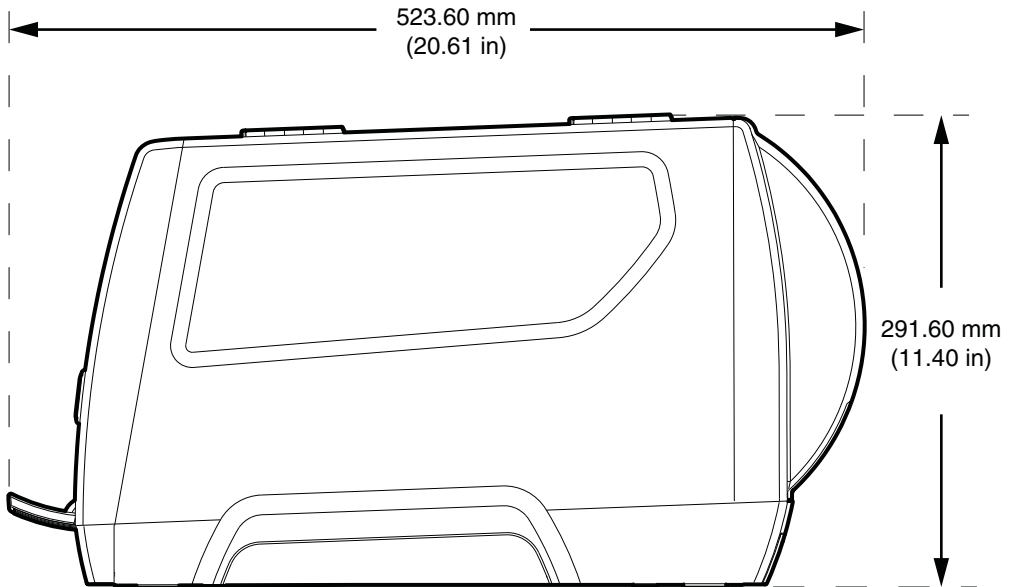
*PM42 Length and Height*

**Power Specifications**

Power Supply Requirements:  100-240 V, 4 A 50/60 Hz

**Temperature and Humidity Specifications**

| Operating Temperature: | 5 °C to 40 °C (41 °F to 104 °F) |
|---|---|
| Storage Temperature: | -20 °C to 60 °C (-4 °F to 140 °F) |
| Relative Humidity: | 20 to 80% non-condensing |

**Print Speed, Resolution, and General Media Specifications**

| | |
|---|---|
| Print Mode: | Thermal Transfer or Direct thermal |
| Print Speed (variable): | 203 dpi: 100 to 300 mm/sec (4 to 12 ips) |
| | 300 dpi: 100 to 300 mm/sec (4 to 12 ips) |
| | 406 dpi: 100 to 250 mm/sec (4 to 10 ips) |
| Print Resolution: | 203 dpi: 8 dots/mm |
| | 300 dpi: 11.8 dots/mm |
| | 406 dpi: 16 dots/mm |
| Print Width: | 203 dpi: 108 mm (4.25 in) max |
| | 300 dpi: 106 mm (4.17 in) max |
| | 406 dpi: 104 mm (4.09 in) max |
| Media Width: | 19.05 to 114.3 mm (0.75 to 4.50 in) |
| Label Roll Diameter (maximum): | 212.70 mm (8.38 in) |
| Label Roll Core (ID): | 76.20 mm (3 in) or 38.1 mm (1.50 in) |
| Label Length (minimum): | 6.35 mm (.25 in) |
| Gap Length Between Labels: | 1.2 to 26 mm (0.05 to 1.02 in) |
| Black Mark Length: | 3 to 25 mm (0.12 to 0.98 in) centered between tickets, 15% maximum reflectance |
| Media Thickness: | 61 to 264 µm (2.40 to 10.40 mil) |
| Media Density: | 57.60 to 250 g/m2 |
| Liner Opacity (maximum): | 76% (TAPPI T425) |
| Ribbon Width: | 21.59 to 110 mm (0.85 to 4.33 in) |
| Ribbon Roll Diameter: (maximum) | 80 mm (3.15 in) |
| Ribbon Core (I.D.): | 25.40 mm (1.00 in) |
| Ribbon Core Length: | 21.59 to 110 mm (0.85 to 4.33 in) |
| Gap and Black Mark Sensor: | Adjustable from left edge to 101.6 mm (4.00 in) |

**Memory**

- 128 MB Flash
- 128 MB SDRAM
- USB memory device (optional)

**Supported Command Languages**

- Fingerprint
- Direct Protocol
- Intermec Printer Language (IPL)
- ZSim
- DSim
- Smart Printing

**Media Sensors**

- Label gap/end
- Black mark
- Printhead lift
- Ribbon present/end (thermal transfer models only)
- Ribbon low

**Network Services**

- FTP
- HTTP Server
- SNMP v1/2c/3
- SNMP client support for IPv4 and IPv6
- WINS for IPv4
- BOOTP for IPv4
- DNS client support for IPv4 and IPv6
- LPR (Line Printer Remote Protocol)
- Raw TCP (Telnet in/out)
- DHCP client for IPv4 and IPv6 network (dual stack)
- IPv4 and IPv6
- Ping
- IPSEC/IKEv2 over IPv4/IPv6
- SSH

**Resident Fonts**
- Andale Mono
- Andale Mono Bold
- Century Schoolbook Roman
- CG Times
- CG Times Bold
- Letter Gothic
- OCR-A
- OCR-B
- Univers
- Univers Bold
- Univers Condensed Bold
- Univers Extra Condensed

**Downloadable Fonts**

For broader language and character support, you can download fonts to the printer and store them in volatile memory.

Honeywell recommends fonts from Monotype Imaging to address global languages. The WTLE (World Type Layout Engine) from Monotype makes it possible to support additional font faces, as well as complex languages and right to left scripting.

These fonts have been tested and are available for purchase and download at **www.fonts.com**. WorldType Collection fonts support all global languages, while the other fonts listed support specific languages:

- Angsana New Regular
- Helvetica World
- MSung PRC Medium
- MSung HK Medium
- HYGothic-Medium
- TBMinPro-Light
- NarkisClassicMF
- WorldType Collection J
- WorldType Collection K
- WorldType Collection S
- WorldType Collection T

**Supported Font Types**

- TrueType
- OpenType
- ATF
- Bitmap

**Supported Bar Code Symbologies**

| 1D Bar Code Symbologies | 2D Bar Code Symbologies |
|---|---|
| Codabar | Aztec |
| Code 11 | Code 16K |
| Code 39 | Code 49 |
| Code 93 | Data Matrix |
| Code 128 | Dot Code |
| DUN-14/16 | Grid Matrix |
| EAN | MaxiCode |
| HIBC 39 | MicroPDF417 |
| HIBC 128 | MSI (modified Plessey) |
| Industrial 2 of 5 | PDF417 |
| Interleaved 2 of 5 | Planet |
| ISBT-128 | Plessey |
| Matrix 2 of 5 | Postnet |
| Straight 2 of 5 | QR Code |
| UPC | RSS-14 |
| | USPS 4-State Customer Bar Code |

**Supported Graphic File Types**

- PCX
- PNG
- GIF
- BMP

**Windows Drivers**

- Support for Windows XP, Vista, Windows 7, Windows 8, Server 2003, and Server 2008
- Supports 32-bit and 64-bit editions

# Interface Specifications

These interfaces are available on the printer.

## RS-232 Serial Interface

The printer end of the serial cable is a DB9 pin. The PC end depends on the model of the desktop computer.
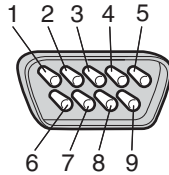


*RS-232 Serial Cable DB9 Pins*

| Pin | Signal | Description |
|-----|--------|-------------|
| 1 |  | External +5 VDC, Max 500 mA |
| 2 | TXD | Transmit data |
| 3 | RXD | Receive data |
| 4 |  |  |
| 5 | GND | Ground |
| 6 |  |  |
| 7 | CTS | Clear to send |
| 8 | RTS | Request to send |
| 9 |  |  |

# USB Device Interface

You connect a cable with a Type A connector and a Type B connector from your PC to the printer. The Type A connector plugs into the PC and the Type B connector plugs into the printer.
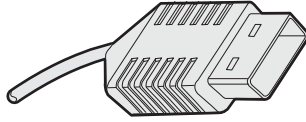


**USB Type A Connector**
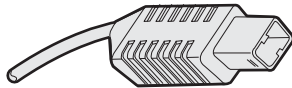


**USB Type B Connector**

To use the USB interface to print from a PC, you need to install the InterDriver printer driver on your PC. Honeywell recommends that you only connect one printer to each USB port on the PC, either directly or through a hub. You cannot connect other devices, such as a keyboard or a mouse, to the same hub.

# USB Host Interface

Use the USB host interface to connect USB devices to the printer such as HID bar code scanners, keyboards, USB storage devices, and USB hubs.
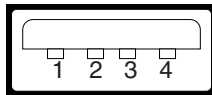


**USB Host Interface**

| Pin | Description |
| --- | --- |
| 1 | VBUS |
| 2 | D- |
| 3 | D+ |
| 4 | Gnd |

# Ethernet Interface

The Ethernet interface has an RJ-45 socket for use with a standard RJ-45 cable. The interface supports 10/100 Mbps Fast Ethernet (10BASE-T, 100BASE-T) and is fully compliant with the IEEE 802.3u standard. The network card MAC address is on the back of the printer.
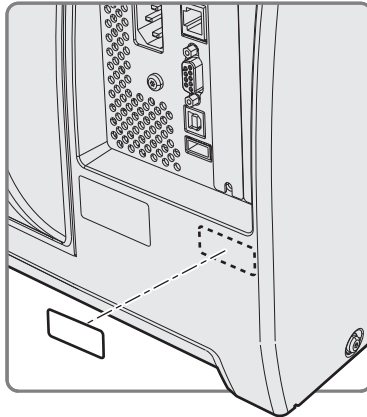


**MAC Address Label Location**

# B
# Default Settings

# Default Configuration

If you restore the printer to factory default settings, the printer will use these values. The order of the settings reflects the organization of the printer Web page and Main Menu.

## Serial Port Settings

Serial port settings are accessible when the printer is serially connected to a PC.

*Serial Port Settings*

| Setting | Description | Default |
|---------|-------------|---------|
| Baud Rate | Transmission speed in bits per second (bps) for the serial port. | 115200 |
| Data Bits | Number of bits that define a character or byte. | 8 |
| Parity | Specifies how the printer checks the integrity of the transmitted data. | None |
| Stop Bits | Number of bits sent at the end of every character to allow the receiving signal hardware to detect the end of a character and to resynchronize with the character stream. | 1 |
| Hardware | Specifies if hardware flow control (RTS/CTS) is used to manage the rate of data transmission between the device and the host. | Disable |
| ENQ/ACK | Specifies if software flow control (ENQ/ACK) is used to manage the rate of data transmission between the device and the host. | Disable |
| XON/XOFF To | Specifies if software flow control (XON/XOFF) is used to manage the rate of data transmission to the host. | Disable |
| XON/XOFF From | Specifies if software flow control (XON/XOFF) is used to manage the rate of data transmission from the host. | Disable |
| New Line Character | Defines the characters that the printer echoes to the host to indicate that it has moved to a new line. | CR/LF |

# Ethernet Settings

Ethernet settings include IPv4 and IPv6 settings.

*Ethernet Settings*

| Setting | Description | Default |
|---------|-------------|---------|
| (IPv4) IP Assignment Method | Specifies how the printer obtains an IP address. | DHCP |
| (IPv4) IP Address | Specifies the unique network-level address that is assigned to each device in a TCP/IP network (IPv4). | 0.0.0.0 |
| Subnet Mask | Specifies a number that defines the range of IP addresses that can be used in a TCP/IP network. | 0.0.0.0 |
| Default Router | Specifies the IP address of a router that is used when a device sends a packet to another subnet or to an unknown destination. | 0.0.0.0 |
| DHCP Response | Specifies if the printer receives DHCP responses by broadcast or unicast. | Broadcast |
| (IPv6) IP Assignment Method | Specifies how the printer obtains an IP address (for IPv6 networks). | Automatic |
| (IPv6) IP Address | Specifies the unique network-level address that is assigned to each device in a TCP/IP network (IPv6). | Automatic |

# Media Settings

Configure media settings for the size, type, and position of your media.

*Media Settings*

| Setting | Description | Default |
|---------|-------------|---------|
| Media Type | Selects the type of media that is loaded in the printer. | Media With Gaps |
| Print Method | Selects the method of printing that the printer is using. | Ribbon (TTR) for thermal transfer printers, or No Ribbon (DT) for direct thermal printers |

*Media Settings (continued)*
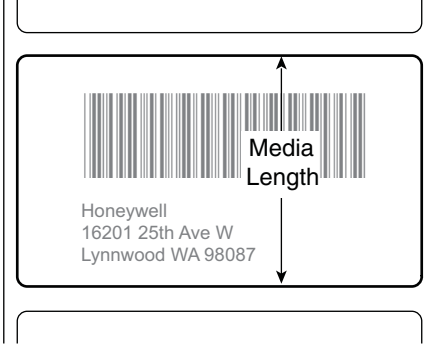
| Setting | Description | Default |
|---------|-------------|---------|
| Media Margin (X) | Sets the width of the margin from the left edge of the label along the printhead to the edge of the printable area. Unit of measurement is defined in the Unit of Measurement parameter. | Variable |
| Media Width | Sets the width of the printable area measured from the media margin (X) across the printhead. Unit of measurement is defined in the Unit of Measure parameter. | Variable |
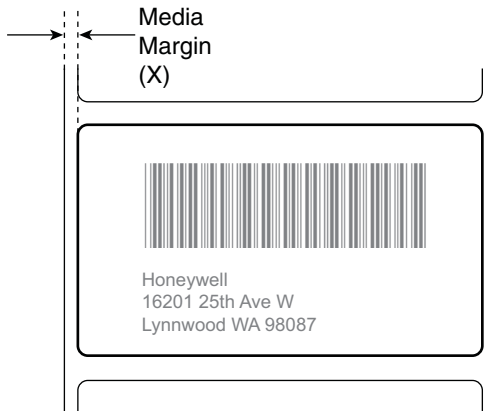
### Media Settings (continued)

| Setting | Description | Default |
|---|---|---|
| Media Length | Sets the length of the printable area measured from one edge of the label to the edge that is closest to the printhead. Unit of measurement is defined in the Unit of Measurement parameter.<br><br> | Variable |
| Clip Default | Determines if the printer prints items outside the printable area of the label.<br><br>When this is set to Off, the printer returns an error if any part of a bar code label cannot be printed because that part extends beyond the printable area. When this is set to On, the printer prints all bar code labels, but may also print unreadable, incomplete labels. | Off |
| Start Adjust | Sets the length of media the printer feeds (positive value) or retracts (negative value) before printing a label. Unit of measurement is defined in the Unit of Measure parameter. Range is -9999 to +9999. | 0 |
| Stop Adjust | Sets the length of media the printer feeds (positive value) or retracts (negative value) after printing a label. Unit of measurement is defined in the Unit of Measure parameter. Range is -9999 to +9999. | 0 |
| Media Calibration Mode | Selects the mode the printer uses to calibrate media. Use Slow if the printer has trouble identifying gaps or marks in media. | Fast |
| Length (Slow Mode) | If Media Calibration Mode is set to Slow, the printer prints the media length plus 10 mm. This value sets an additional amount of media to be printed. Unit of measurement is defined in the Unit of Measurement parameter. Range is 0 to 3200. | 0 |

*Media Settings (continued)*

| Setting | Description | Default |
|---------|-------------|---------|
| Power Up Action | Sets the action when you turn the printer on:<br>• No Action<br>• Formfeed - The printer feeds one label.<br>• Testfeed - The printer prints two configuration labels as it calibrates the media sensors. | No Action |
| Head Down Action | Sets the action when you close the print mechanism after opening it:<br>• No Action<br>• Formfeed - The printer feeds one label.<br>• Testfeed - The printer prints two configuration labels as it calibrates the media sensors. | No Action |

# Print Quality Settings

Configure print quality settings to control print speed, media sensitivity, darkness, and contrast.

*Print Quality Settings*

| Setting | Description | Default |
|---------|-------------|---------|
| Print Speed | Sets how fast the printer prints labels. The unit of measure is defined in the Unit of Measure parameter. | 100 |
| Media Sensitivity | Sets the level of sensitivity of the media to the printhead heat for media and ribbon. | Variable |
| Darkness | Sets the image darkness for media and ribbon. Adjust this parameter with the Media Sensitivity parameter. Range is 1 to 100. | Variable |
| Contrast | Adjusts the blackness of the printing on the label in 2% increments from -10% to +10%. | +0% |

# General System Settings

General system settings control parameters like date, time, and printer command language.

*General System Settings*

| Setting | Description | Default |
|---------|-------------|---------|
| System Name | Sets the network identification name (WINS name) of the printer. | Printer model number and serial number. For example, PM42-000000011 |
| System Location | Sets the location of the printer. | Empty string |
| System Contact | Sets the name of the printer administrator. | Empty string |
| XML Response Mode | Determines if the printer provides XML responses to printing requests (over Telnet and HTTP). | False |
| Display Language | Selects the language the printer uses to display text on the screen. | English |
| Display Language (Web Page) | Selects the language the printer uses to display text on the screen. | English |
| Keyboard Input | Selects the language of the external keyboard that is connected to the printer. | U.S./U.K. |
| Time | Sets the current time. | System time |
| AM/PM | Sets AM or PM. | AM |
| Date | Sets the current date. | System date |
| Command Language | Sets the printer command language. If changed, requires restart. | Fingerprint |
| Alert Notification Method | Selects how you want the printer to notify you of printer alerts. | SNMP Trap + Email |
| Unit of Measure | Selects the unit of measure that is used to define several printing parameters. | Dots |
| Zero with Slash | Determines how the zero character is printed and displayed on the screen. Disable (0) or Enable ($\emptyset$). | Disable |
| Time Zone | Sets the time zone. | (UTC 00:00) Universal Time |
| DST Adjust | Determines if Daylight Saving Time is automatically adjusted. | Disable |

# Display Settings

Display settings control options for the screen.

*Display Settings*

| Setting | Description | Default |
|---|---|---|
| Brightness | Selects the brightness of the printer screen. | Medium |
| Idle Information | Selects the information that appears on the printer screen when it is in Idle mode. | IPv4 address |
| Time Format | Selects the format used to display time on the printer. | 24 Hour |
| Date Format | Selects the format used to display date on the printer. | dd/mm/yyyy |
| Menu Access | Determines if the Menu button on the printer web page is accessible. | Enable |
| PIN | Sets the password that allows access to the Menu button on the printer web page, if the Menu Access parameter is set to Enable With PIN. Range is 4 to 16 characters. | 1234 |
| Screen Timeout | Selects how long the printer screen stays on before the screen saver starts. | Disable |
| Feed Key Access | Determines if the Print button is enabled or disabled. | Enable |
| Information Access | Determines if the information bar on the Main Menu is accessible. | Enable |

# Manage I/O Settings

System I/O settings determine which communication methods the printer can use.

*Manage I/O Settings*

| Setting | Description | Default |
|---|---|---|
| Ethernet | Determines if the printer is allowed to communicate using Ethernet communications. | Enable |

# Manage Services Settings

These services are available for Ethernet communications.

*Manage Services Settings*

| Service | Description | Default |
|---|---|---|
| Web Server | Determines if the web server is enabled in the printer. | Enable |
| FTP | Determines if the printer can use File Transfer Protocol (FTP). | Enable |
| Avalanche | Determines if the printer can be managed by Wavelink Avalanche. | Enable |
| Net1 | Determines if the printer can use Telnet to communicate with Direct Protocol (Fingerprint). | Enable |
| SmartSystems | Determines if the printer can be managed by Intermec SmartSystems Foundation. | Enable |
| SNMP | Determines if the printer can use SNMP. | Enable |
| LPR | Determines if the printer can use the line printer server (LPR) daemon. | Enable |
| IKEv2 | Determines if the printer can use IKEv2. | Disable |
| SSH | Determines if the printer can use Secure Socket Handling (SSH). | Enable |
| Telnet | Determines if the printer can use Telnet to communicate with another device. | Enable |
| XML | Determines if the printer can use XML printing. | Enable |
| Time Server | Determines if the printer uses the Network Time Protocol (NTP) to synchronize its time with a network time server. The default Server Address is ntp0.cornell.edu, and the default Port Number is 123. | Disable |

# C

# Print Labels with INPrint

This section explains how to use the INPrint feature to print labels.

# About the INPrint Page

The INPrint page features sample web forms you can use to quickly and easily print single labels if you are using the Fingerprint or Direct Protocol language on your printer. You select a web form from the lists and enter information in the fields for that label. You can then preview and print the label.

The printer firmware includes several predefined label formats. You can also copy your own label formats to the printer and print them from this page.



# Print INPrint Labels
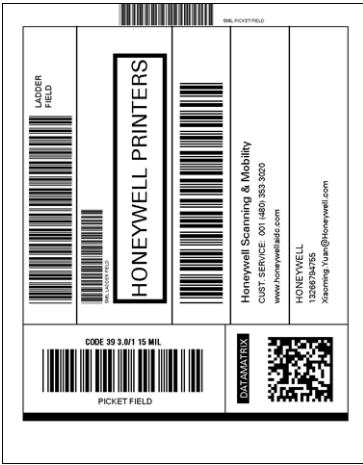
If the printer is connected to an Ethernet network, you can print labels by entering information in a web form. You access web forms through the printer web page.

1 On your desktop PC, start a browser.

2 In the address bar, type the IP address of your printer and press **Enter**. The printer web page appears.

3 Click **Login**. The Login page appears.

4 Type your **Username** and **Password** and then click **Login**. The default value for Username is admin and the default value for Password is pass.

5 Click the **INPrint** tab.

6 Select the web form you want to print:

   • If you created the web form yourself, click **Customer Downloaded** and then select the web form in the list.

   • To use one of the Resident (Intermec-supplied) web forms, click **Resident** and then select the web form in the list.

7 Type information in the web form as needed.
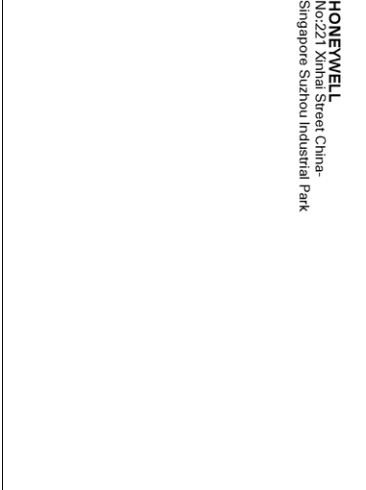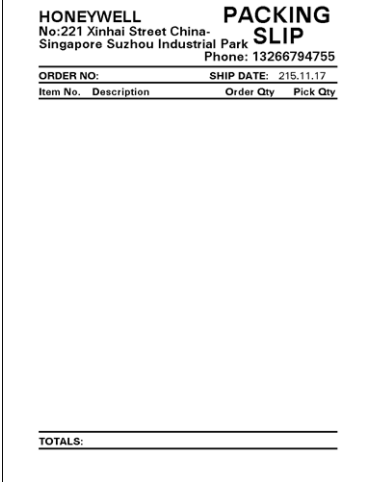
**8** (Optional) To preview the label on screen, click **Preview**.

**9** To print the label, click **Print**.

# Predefined INPrint Label Formats

### Predefined INPrint Label Formats

| Format Name | Sample |
|---|---|
| 203_returnadd_3x1.lbx | **HONEYWELL** No:221 Xinhai Street China- Singapore Suzhou Industrial Park |
| 203_demo_4x6.lbx |  |

### *Predefined INPrint Label Formats (continued)*

| Format Name | Sample |
|---|---|
| 203_shipaddr_4x6.lbx | **HONEYWELL** No:221 Xinhai Street China- Singapore Suzhou Industrial Park |
| 203_packslip_4x6.lbx | **HONEYWELL** No:221 Xinhai Street China- Singapore Suzhou Industrial Park  **PACKING SLIP** Phone: 13266794755  ORDER NO:   SHIP DATE: 215.11.17 Item No.   Description   Order Qty   Pick Qty  TOTALS: |

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