PR-5 (Unicode)

Handset for thermal transfer printers of XL series

OPERATING INSTRUCTIONS
Important Notes

Operating instructions

<table>
<thead>
<tr>
<th>Description</th>
<th>Version</th>
</tr>
</thead>
<tbody>
<tr>
<td>PR 5 (Unicode)</td>
<td>M01301101EN0813</td>
</tr>
</tbody>
</table>

The operating manual is the original operating instructions.

Applicability

The present operating instructions apply to devices with the following article number.

Device name

<table>
<thead>
<tr>
<th>Article Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>100598</td>
<td>Handset PR5 (Unicode)</td>
</tr>
</tbody>
</table>

Using this manual

- First read the Chapter on “Safety Information” before you begin working with the device.
- The operating manual enables safe working on and with the device. It is essential that you comply with all safety instructions contained therein.
- Read the complete operating manual before installing and commissioning the device.
- The operating manual is a part of the device. It has to be stored so that every person that works on and with the device has access to it at all times. The manual must be complete and in an easily readable condition.
- When the device is passed on, you have to enclose the operating manual.
- If the operating manual is lost, please ask for a replacement. Information on the current version of the operating manual may be found on our website www.AllenCoding.com.
- The information provided in these Operating Instructions relate to the devices described under “Applicability”.
- For additional technical information on the device, please refer to the service manual.

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1 Product Identification

1.1 Characteristic data

Handset PR5 (Unicode)

<table>
<thead>
<tr>
<th>Article Number</th>
<th>100598</th>
</tr>
</thead>
<tbody>
<tr>
<td>WEEE-Reg.-Nr. DE</td>
<td>84410135</td>
</tr>
<tr>
<td>Unique Identification</td>
<td>Serial number (SNR) on type plate</td>
</tr>
</tbody>
</table>

1.2 Compliant Use

1.2.1 Ambient conditions

<table>
<thead>
<tr>
<th>Handset PR5 (Unicode)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Ambient temperature operation [°C]</td>
<td>5 - 40</td>
</tr>
<tr>
<td>Relative humidity operation (non-condensing) [%]</td>
<td>20 - 75</td>
</tr>
<tr>
<td>Protection class</td>
<td>IP 20</td>
</tr>
<tr>
<td>Ambient temperature transport and storage (for a maximum of 10 days) [°C]</td>
<td>5 - 40</td>
</tr>
<tr>
<td>Relative humidity transport and storage (non-condensing; for a maximum of 10 days) [%]</td>
<td>20 - 75</td>
</tr>
</tbody>
</table>

1.2.2 Designated use

The handset is designed to be used only in combination with the following thermal transfer systems:
- Thermal transfer printer of XL Series

1.2.3 Qualification of personnel

Operation and set-up:
Operation and set-up of the device may only be performed by sufficiently qualified and trained personnel that have been authorized by operator to perform these tasks.

Installation, cleaning and maintenance:
Installation, cleaning and maintenance of the device may only be performed by fully qualified and trained technical personnel.

Maintenance:
Maintenance of the device may only be performed by the manufacturer’s technical personnel or by fully trained and qualified technical personnel.
1.3 Technical data

This Section contains information on the mechanical and electrical properties of the device and its accessories.

1.3.1 Mechanical data

<table>
<thead>
<tr>
<th>Handset PR5(Unicode)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Equipment height</td>
<td>[mm]</td>
</tr>
<tr>
<td>Equipment width</td>
<td>[mm]</td>
</tr>
<tr>
<td>Equipment depth</td>
<td>[mm]</td>
</tr>
<tr>
<td>Weight</td>
<td>[kg]</td>
</tr>
</tbody>
</table>

1.3.2 Electrical data

<table>
<thead>
<tr>
<th>Handset PR5(Unicode)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated voltage</td>
<td>[V&lt;sub&gt;dc&lt;/sub&gt;]</td>
</tr>
<tr>
<td>Power consumption</td>
<td>[A]</td>
</tr>
</tbody>
</table>

1.4 Identification of the device

Type plate

The nameplate attached to the device contains the following data:

1. Device type with article number
2. Serial number (SNR) for unique identification
3. Year built
4. Electrical data: Voltage, power
5. Manufacturer
6. WEEE identifier
7. CE identifier
1.5 Compliance Information

1.5.1 CE-compliance

NOTE
CE-conformity
The product’s CE conformance is certified by attachment of the CE symbol to the name plate. A sample of the declaration is found in the Appendix to these Operating Instructions; see “EC-Compliance Statement”.

The device meets the requirements of the following European EC-Guidelines:

- EMC guideline 2004/108/EG

1.5.2 EMC Compliance Statements

European Union (EU) Electromagnetic Compatibility Directive Compliance Statement


Federal Communications Commission (FCC) Emissions Compliance Statement

This equipment has been tested and complies with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device might not cause harmful interference, and (2) this device must accept any interference received, including interference that might cause undesired operation.

Warning: Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at their own expense.

1.5.3 RoHS / WEEE – compliance

RoHS

The product complies with the relevant provisions of the RoHS Directive for the European Union.

WEEE Directive Statement for the European Union

| WEEE-Reg.-Nr. DE | 84410135 |

In common with all Electronic and Electrical products the product should not be disposed of in household waste. Alternative arrangements may apply in other jurisdictions.
2 Product Specifications

In this Chapter you will find information on the deliverable items and on the furnishings of the device.

2.1 Safety Requirements

NOTE

Please always follow the safety instructions.
See Chapter “Safety Information”.

2.2 Deliverable Items

NOTE

Check the deliverable items for completeness and condition.
After receipt of the shipment, please check immediately to see whether all items listed on the delivery ticket are included and are undamaged. The manufacturer does not accept liability for deficiencies that have been claimed subsequently. Complain against:

- Transport damages directly to the shipping service.
- Deficiencies and/or incompleteness immediately to the manufacturer or your distributor.

The following components belong to the standard deliverable items for the device

<table>
<thead>
<tr>
<th>Position</th>
<th>Count</th>
<th>Article number</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1</td>
<td>100598</td>
<td>PR5 Handset</td>
</tr>
<tr>
<td>2</td>
<td>1</td>
<td>---------------</td>
<td>CD with operating instructions</td>
</tr>
</tbody>
</table>

The following components belong to the optional deliverable items for the device

<table>
<thead>
<tr>
<th>Position</th>
<th>Count</th>
<th>Article number</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>1</td>
<td></td>
<td>Connecting cable for connection between handset PR5 and printer</td>
</tr>
</tbody>
</table>
2.3 Description of device

The PR-5 handset is designed to provide easy configuration and operation of Allen Coding printers. USB connectivity and a simple menu structure allow for easy data transfer, firmware updates and keypad entry of variable information such as lot/batch numbers and other alpha-numerical text.

To satisfy speed, flexibility and ease of handling, the PR-5 handset has the following characteristics, among others:

- Compact size.
- Maximum integration and adaptability to most machines.
- Ease of configuration and ease of use.

The following illustrations show the various parts of the PR-5 handset and the function of each of those components.

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Screen</td>
<td>4</td>
</tr>
<tr>
<td>2</td>
<td>Keypad</td>
<td>3</td>
</tr>
</tbody>
</table>
2.3.1 Screen information

Each of the icons that can appear in the message bar is explained below.

- **List**
  Shows that the selected parameter has a list of data available that can be viewed and selected quickly by pressing “List.”

- **Symb**
  Shows that the selected parameter has an option to insert symbols.

- **[ABC]**
  Indicates that the alphanumeric keyboard has been activated and that the Uppercase option has been selected (default setting).

- **[abc]**
  Indicates that the alphanumeric keyboard has been activated and that the Lower Case option has been selected.

- **Move**
  Allows access to the screen X-Y displacement of the label.

- **Yes all**
  Accepts all current values of the variable fields.

**NOTE**

All the icons might not always be visible.

2.3.2 The Keyboard

**Alphanumeric keys:**

- Enter numeric and/or alphanumeric characters.

**Programmable keys:**

- Access the command displayed immediately above this key on the message bar.
Function keys:

- Cursor positioning.
- Selection functions.
- Activate/Deactivate alphanumeric keyboard.
- Go back to the previous menu without saving.
- Enter symbols (see symbols).
- Selection of upper or lower case letters.
- Enter a dot.
- Run the print test.
- Enter commonly used special characters (see special characters) when the alphanumeric keyboard is activated.
- Delete the current character and shift the cursor one position to the left.
- Directly run the selected option. ENTER.
3 Safety Information

This Chapter contains information on the configuration and relevance of the safety information presented in these operating instructions, and also information on possible hazards which may occur even for compliant usage of the device.

3.1 Configuration of the safety instructions

⚠️ SIGNAL WORD

Type and source of hazard

Explanation of the hazard and information on possible consequences of non-compliance

- Activities/prohibited actions to help prevent accidents.

<table>
<thead>
<tr>
<th>SIGNAL WORD</th>
<th>Consequences when hazard occurs</th>
<th>Probability of occurrence</th>
</tr>
</thead>
<tbody>
<tr>
<td>HAZARD</td>
<td>Severe physical injury or death (irreversible)</td>
<td>imminent</td>
</tr>
<tr>
<td>WARNING</td>
<td>Severe physical injury or death (irreversible)</td>
<td>possible</td>
</tr>
<tr>
<td>CAUTION</td>
<td>Slight/minor physical injury (reversible)</td>
<td>possible</td>
</tr>
<tr>
<td>ATTENTION</td>
<td>Property damage to machinery and/or to nearby assets</td>
<td>possible</td>
</tr>
</tbody>
</table>

The pictogram denotes the type of hazard

The safety sign ⚠️ before the signal word indicates a possibility of personal injury

The signal word denotes the severity of the hazard

The reference text describes:

- type and source of hazard,
- the possible consequences of disregarding the safety instruction,
- measures or restraints to prevent the hazard.
### 3.2 Used pictograms

<table>
<thead>
<tr>
<th>Pictogram</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>!</td>
<td>Warning of a general hazard</td>
</tr>
<tr>
<td>STOP</td>
<td>Warning of possible property damages</td>
</tr>
<tr>
<td>📚</td>
<td>Before performance, observe the corresponding information in the operating manual</td>
</tr>
<tr>
<td>🔄</td>
<td>General note</td>
</tr>
</tbody>
</table>

### 3.3 Hazards during compliant use

**CAUTION**

Potential hazard caused by incorrect accessories and spare parts!

The use of accessories and spare parts that are not recommended by the manufacturer may compromise safety, functionality and efficiency of the device. Any liability and warranty for any damages caused by not recommended accessories and spare parts or non-intended use is excluded by the manufacturer.

- Thus use manufacturer recommended accessories and spare parts exclusively.
4  Installation

In the following Chapter you will find information on installation of the device.

---

**CAUTION**

Potential hazard due to incorrect or non-compliant installation!

Incorrect or improper assembly of the device may impair safety, functionality and efficiency of the device.

- The installation of the device may be performed exclusively by qualified technical expert personnel.
- Follow the relevant instructions in the operating manual.

---

4.1  Unpacking

**CAUTION**

Hazard due to defects or transport damage!

Transport damage to the device may result in unforeseeable hazards to personnel and/or property.

- On unpacking the device, check for any visible damage.
- Never ever connect a damaged device to the voltage supply or a printing system.
- Broken glass or plastic can cause injuries to hands. Liquids may emerge from a broken display. Avoid contact with this liquid. Clean carefully any body parts or clothing that have been exposed to these liquids.
- In case of transport damage, consult the manufacturer or your distributor.

---

**NOTE**

Check the deliverable items for completeness and condition.

After receipt of the shipment, please check immediately to see whether all items listed on the delivery ticket are included and are undamaged. The manufacturer does not accept liability for deficiencies that have been claimed subsequently. File complaints with:

- Transport damages directly to the shipping service.
- Deficiencies and/or incompleteness immediately to the manufacturer or your distributor.

---

**NOTE**

Recycling of transport packing

The transport packaging may be stored for later recycling, e.g. transport or storage.

---

**Step 1:** Open the transport packing.

**Step 2:** Check whether all items listed on the delivery ticket are included and undamaged.

**Step 3:** Remove all components of the device carefully from the transport packing.

---

4.2  Connecting the handset

Connect the 9-pin connector of the connection cable in use firmly to the system interface of the handset (female connector on the bottom right of the handset). Tighten the screws.

Turn off the printing system that is to be connected with the handset.

Connect the free end of the connecting cable to the female connector of the printing system. Ensure that the connection cable is plugged in firmly.

Switch on the printing system.
5 PR-5 handset

This chapter describes how to use the PR-5 handset for programming the printer and how to operate the USB Pendrive.

5.1 Menu system

The functions of the PR-5 handset are controlled via a menu system. The main menu is shown below:

```
Label parameters
Deleting Labels
Memory
Print
Program
USB Pendrive
Options
```

Option selected ➔ Rotating menu system

NOTE
The complete structure of the menu system is described in a diagram at the end of this section.

1. Navigating through the Menu system

Use the following keys to browse through the menu system.

Once you reach the desired option, press OK or to select it.

If the selected option is linked to a submenu, repeat the operation.

To go back to the previous option, push the key.
NOTE
Example: To display the current date and time of the printer.

1. Push the key \( \text{ three times to select the } \text{ OPTIONS } \text{ from the main menu.} \)

2. Press \( \text{ or } \text{ key to enter into the sub-menu.} \)

3. Push the key \( \text{ twice to select the } \text{ DATE/TIME } \text{ option in the submenu.} \)

4. Push the key \( \text{ or the } \text{ key to edit the date and time.} \)

5. Push \( \text{ or } \text{ key to view the current time.} \)

6. Push the key \( \text{ to validate the changes made and/or press } \text{ twice to return to the main menu.} \)
5.2 Basic operations

Enter numeric characters

Look at the screen. If the message bar displays ABC or abc, push the key ABC to deactivate the alphanumeric keyboard.

Press the key with the desired digit to display it in on the screen.

NOTE
Example: Enter the digit 8.

1. Push to select PROGRAM option and press key to enter the submenu.

2. Push key twice to select AUDIT CODE option and press ESC to enter the submenu.

Look at the screen. If the message bar displays ABC or abc, push the ABC key to deactivate the alphanumeric keyboard.

3. Push the key 8. The digit 8 will be shown on screen.

4. Push the key ESC several times to return to the main menu.

NOTE
Numeric characters can also be entered with the alphanumeric keyboard enabled, but it takes longer to enter them as you will need to push each key several times.
Entering alphanumeric characters

Look at the screen. If the message bar doesn’t display **ABC** or **abc** push the key **ABC** to activate the alphanumeric keyboard.

Select Uppercase/Lowercase by pushing the key **A/A**.

Press the key with the desired character several times until that character appears on the screen.

---

**NOTE**

Once the character is displayed, wait a moment for the cursor to move automatically to the right.
NOTE
Example: Enter the character “C”.

1. Push \( \text{Home} \) to select PROGRAM option and press \( \text{Left} \) key to enter the submenu.

2. Push \( \text{Sel} \) key twice to select AUDIT CODE option and press \( \text{Left} \) to enter the submenu.

3. Look at the screen. If the message bar doesn’t display [ABC] or [abc], push the key \( \text{ABC} \) to activate the alphanumeric keyboard.

4. If the message bar displays [abc], select Uppercase by pushing the key \( \text{A/A} \).

5. Push the key \( \text{CL} \) once and the key \( \text{2 ABC} \) three times. The character “C” will be displayed on the screen.

6. Push \( \text{ESC} \) several time to return to the main menu.
Entering symbols

To insert the special characters (symbols) proceed as follows:

Look at the screen. If the message bar displays push the key .

A list of symbols will be displayed in the message bar. Select the desired symbol using keys and press .

NOTE

Example: Enter the symbol @.

1. Create a label with a prompt alphanumeric field. Then, if you select this label for printing, the handset will ask you the value for this alphanumeric field.

2. Press the key . A list of symbols will be displayed in the message bar. Select the “@” symbol using keys .

3. Push to select the symbol. The symbol will be inserted into the text.

4. Push to save the new value and print the label.
Delete characters

To delete any character, first place the cursor using the key above the character that you wish to delete.

Push the key and the character will be deleted automatically.

**NOTE**

When a character is deleted, the cursor shifts back one space relative to the position of the deleted character.

**NOTE**

Example: Change the value of the “Electrovalve” parameter from 18 to 19.

1. Push to select PROGRAM option and press key to enter the submenu.

2. Push to select TIMING CONSTANTS option and press the key to enter the submenu.

3. Use to select the “Electrovalve” parameter. Place the cursor to the right of the character “8” using the key.

4. Push and the character “8” will be deleted.

5. Type “9” and press the key.

6. Push to save parameters and exit. Press several times to return to the main menu.
Selecting settings with predetermined values
Some settings are predetermined therefore the printer will not accept any modifications.

NOTE
This feature is NOT common to all the settings, only the ones with ⬇️ in the message display when editing.

To change the value of the parameter, use the keys ⬅️

NOTE
Example: Modifying the trigger of the External Signal Input from “Edge” to “Level”

1. Push ⬡️ to select PROGRAM option and press ⬅️ key twice to display the “General constants” parameters.

2. Use ⬡️ to select the “External trigger” parameter.

3. Press ⬅️ key to select the “Level” value and press ⬅️ key to validate this parameter.

4. Push OK to save parameters and exit. Press ESC several times to return to the main menu.
Exit saving changes
For saving the modifications press the OK key. Last changes will be sent to the printer and will exit the current screen automatically.

Exit without saving changes
Press the ESC key. Last changes will be lost and will exit the current screen automatically.

Canceling a print Job
The normal way to exit the current print job is pressing the ESC key. If the printer doesn’t exit properly, please follow the next steps:

1. Turn-off the printer
2. Press and hold the 2f key.
3. Turn-on the printer. Wait until the following windows appears:

   Print job cancelled

4. Release the 2f key.

Ribbon rewind
For additional ribbon rewind, press the 2f key.

NOTE
This feature can be used only if the PR-5 is in the Main Menu or in the Print Screen.
6 PR-5 for 53XL80

6.1 Menu diagram

PRINT

- LABEL
- QUANTITY

PROGRAM

- GENERAL CONSTANTS
  - PRINT CONTRAST
  - EXTERNAL TRIGGER
  - PRINT SPEED
  - BACKWARD SPEED
  - RESET

- TIMING CONSTANTS
  - PRINT DELAY
  - ELECTROVALVE
  - BACKWARD DELAY
  - END CYCLE DELAY
  - RESET

- SEVEN DAY BATCH
  - DAY
  - HOUR [hh]
  - MINUTES [mm]

- TIME OFFSET
  - HOURS [hh]
  - MINUTES [mm]

- AUDIT CODE
  - LINE NUMBER
  - CUSTOMER I.D.
  - SITE I.D.

- ADJUST
  - USING RIBBON
  - LATERAL ADVANCE
  - NUMBER OF ADVANCES
  - RESET

USB PENDRIVE

- EXPORT
  - LABEL
  - BLOCK
  - ALL

- IMPORT
  - LABEL
  - BLOCK
  - ALL
<table>
<thead>
<tr>
<th>OPTIONS</th>
<th>LANGUAGE</th>
<th>ENGLISH</th>
<th>FRENCH</th>
<th>ITALIAN</th>
<th>SPANISH</th>
<th>GERMAN</th>
<th>PORTUGUESE</th>
<th>SWEDISH</th>
</tr>
</thead>
<tbody>
<tr>
<td>KEYBOARD</td>
<td>KEYBOARD LOCKED PASSWORD</td>
<td>LOCKED</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DATE/TIME</td>
<td>DATE [D.M.Y] TIME [H:M]</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SETUP</td>
<td>MIRROR PRINT PRINthead RESISTOR RESET</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>COMMUNICATIONS</td>
<td>TYPE RS232 BAUDRATE ETHERNET IP ADDR MASK GATEWAY USB</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>SPECIAL SETTINGS</td>
<td>FUNCTIONAL TEST SENSOR TEST PRINTED METERS PASSWORD TECHNICAL SERVICE PASSWORD</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>VERSION</td>
<td>(SOFTWARE VERSION OF PRINTER) (SOFTWARE VERSION OF HANDSET)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SCREEN</td>
<td>LCD CONTRAST</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LABEL PARAMETERS</td>
<td>(SELECT LABEL) IMAGE HEIGHT IMAGE WIDTH X-OFFSET Y-OFFSET RIBBON ADVANCE SAVE VARIABLE FIELDS</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DELETING LABELS</td>
<td>LABEL BLOCK ALL</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MEMORY</td>
<td>FREE MEMORY (AVAILABLE CAPACITY) RESTORE FACTORY SETTINGS PASSWORD QUICK FORMAT PASSWORD</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
6.2 Main Menu

6.2.1 Print

The main menu option is used to select the label to print and how many copies of them.

The label should be selected from the displayed list (scrolling with cursors and pressing the “Enter” key).

- **Label** Specifies the name of the label to be printed.
- **Quantity** Determines the number of print jobs to be performed.
  Values: from 0 to 999999999 (where 0 indicates an infinite number of print jobs).

6.2.2 Label displacement

This option allows the printing to be moved in two directions X and Y. To access this option, the printer must be in print cycle.

At this stage:

1. Press the key below of the **Move** hint to access the positioning screen.

2. Press the keys as many times as necessary until reaching the desired position.

   The key allows you to make a check print-out.
   The key allows you to restore the print-out to its original position.

3. Press key **ESC** to exit the screen.

---

**NOTE**

The selected X and Y positions will be automatically saved in the label format to be used again.
6.3 Program

The PROGRAM option lets you configure the printer to ensure high quality printing and optimal use of the thermal transfer (ribbon).

GENERAL CONSTANTS

Configures the printing parameters.

- **Print contrast** Determines the level of black-white contrast of the print. Configures this parameter according to the type of thermal transfer (ribbon) used, the surface area printed and the printing speed.
  Values: from 0 to 9.

- **External trigger** Defines the type of detection for the external “begin print” signal.
  Preset values: **Edge**, **Level**
  If the detection is based on **Edge**, the external signal must change from an inactive to an active state. If the detection is based on **Level** the external signal must be active.

- **Print speed** Defines the printing speed.
  Values: from 75 to 400 mm/s

- **Backward speed** Indicates the speed of return of the print head.
  Values: from 75 to 400 mm/s

- **Reset** Lets you recover the original default values of the previous parameters.

TIMING CONSTANTS

Configure the print timing parameters.

- **Print delay** Determines the time that elapses between activation of the external print signal and activation of the electrically operated valve that lowers the print head.
  Values: from 0 to 9999 encoder pulses

- **Electrovalve** Defines the time interval between activation of the electrically operated valve that lowers the print head and the start of printing.
  Values: from 0 to 9999 ms

- **Backward delay** Defines the time interval between the end of one print job and the start of the ribbon rewind process.
  Values: from 0 to 999 ms

- **End cycle delay** Defines the waiting time between two print cycles.
  Values: from 0 to 9999 ms

- **Reset** Lets you recover the originally programmed values of the previous parameters.
SEVEN DAY BATCH

Specifies the day of the week and time to update a programmed date that is changed each week (a date that is updated once a week).

- **Day** Defines the day of the change.  
  Values: from Monday to Sunday

- **Hour [hh]** Defines the time of the change.  
  Values: from 0 to 23

- **Minutes [mm]** Determines the minutes.  
  Values: from 00 to 59

TIME OFFSET

Specifies the time to update a programmed date with hourly variation (that date is updated once a day).

- **Hours [hh]** Defines the time of the change.  
  Values: from 0 to 23

- **Minutes [mm]** Defines the minutes.  
  Values: from 0 to 59

AUDIT CODE

Edits the parameters needed to create this code type (encryption of the parameters defined after the current date and time). This parameters are listed below:

- **Line number** A character used to identify an individual production line.

- **Customer I.D.** A character used to identify a customer.

- **Site I.D.** A character used to identify the manufacturer.

ADJUST

Configures the parameters related to the thermal transfer (*ribbon*).

- **Using ribbon** Lets you activate or deactivate printing with thermal transfer (*ribbon*).  
  Preset values: **YES** or **NO**

- **Lateral advance** Determines the vertical distance between two prints made on a given piece of ribbon.  
  Values from 1 to 22 mm

- **Number of advances** Defines the number of prints to be performed on a given piece of ribbon.  
  Values: from 1 to 17 advances

- **Reset** Determines whether or not to recover the default values of the previous parameters.  
  Preset values: **YES** or **NO**
6.4 USB Pendrive

The USB Pendrive option allows you to operate with USB Pendrive and to carry out functions such as sending images (stored in the USB Pendrive) to the printer or make copies of images from the printer memory.

In order to be able to perform such functions, you need to know the following information(102,201),(902,831):

- The USB Pendrive must be properly formatted before to use.  
  *Example:* Format the USB Pendrive with your Explorer in your PC.

- When the USB Pendrive is inserted in the PR-5, the handset creates automatically a folder called **IMPPRX** where the images will be stored.

- The PR-5 only supports USB Pendrive formatted in **FAT** or **FAT32**.

- To operate or enter in the USB Pendrive menu you need to insert the USB Pendrive otherwise the following message will be displayed:

  “STORAGE DEVICE NOT FOUND”.
Use the USB Pendrive to perform the following operations:

**EXPORT (USB → Printer)**

Sends labels stored in the USB Pendrive to the printer memory.

- **IMAGE**
  
  Sends a single label from the USB Pendrive to the printer.

  Select the label from the displayed list (labels stored in the USB pendrive) and press “Enter” for sending the label.

- **BLOCK**
  
  Lets you send a set of labels from the USB Pendrive to the printer in a single batch. To do so, you need to select the first and last label to the block.

- **ALL**
  
  Allows you send all labels stored in the USB Pendrive to the printer in a single transfer.

**NOTE**

During the process of sending the labels from the USB Pendrive to the printer, the names of those labels will be displayed. If there is not enough space in the memory of the printer during transmission, the process will be interrupted and the message “MEMORY FULL” will be displayed.
IMPORT (Printer → USB)

Sends labels stored on the printer memory to the USB Pendrive.

- **IMAGE**

  Sends a single label from the printer memory to the USB Pendrive.

  Select the label from the displayed list (labels stored in the printer memory) and press “Enter” for sending the label.

- **BLOCK**

  Lets you send a set of labels from the printer memory to the USB Pendrive in a single batch. To do so, you need to select the first and last label to the block.

- **ALL**

  Allows you send all labels stored in the printer memory to the USB Pendrive in a single transfer.

**NOTE**

During the process of sending the names of the labels will be displayed during transmission of the labels from the printer to the USB Pendrive. If there is not enough space in the memory of the USB Pendrive during transmission, the process will be interrupted and the message “MEMORY FULL” will be displayed.
6.5 Options

Used to configure the date and time, select the language, locked/unlocked the keyboard, configure the RS-232 communication, select the printer and handset software.

LANGUAGE

Configures the printer and handset language.

Once the LANGUAGE option has been selected, choose from the available languages. These are: ENGLISH, FRENCH, ITALIAN, SPANISH, GERMAN, PORTUGUESE and SWEDISH.

The handset will automatically display the information in the language selected.

KEYBOARD

Allows you to lock/unlock the keyboard. This allows you to restrict access to the printer program.

Once the KEYBOARD option has been selected, the keyboard status can be changed by selecting one of the following options: KEYBOARD LOCKED, KEYBOARD UNLOCKED.

- Password Authorization code necessary to perform the operation. When you enter the password, the characters will be masked on the handset display to prevent unauthorized persons from reading them not be viewed on the handset display.

  Key: 31771

If the key entered is correct, the keyboard status will change. Otherwise the message “INCORRECT PASSWORD” will appear.

NOTE

If the keyboard is locked, you only have access to the following options: PRINT, USB PENDRIVE (only Print) and KEYBOARD.

DATE/TIME

Configures date and time on the printer.

- Date [d.m.y] Present date. The date format is day, month and year.
- Time [h:m] Present time. The time format is hours (0 to 23), minutes (0 to 59).
SETUP

This option lets you modify the following programming parameters:

- **Mirror print**  Allows you to print a mirror image (symmetry of the original).
  Predetermined values: **YES or NO**

- **Printhead resistor**  Shows the electrical resistance of the print head in Ohms.
  Values: from 1074 to 1476 Ohms

- **Reset**  Resets all parameters to factory settings.
  Predetermined values: **YES or NO**

COMMUNICATIONS

Configures the communication channel used to send and receive data

- **Type**  Defines the type of connection used:
  Predetermined values: **RS-232 (serial), Ethernet, USB (Virtual COM Port)**

- **Baud Rate (only for RS-232)**  Defines the transmission speed for the selected serial communication.
  Predetermined values: **9600,19200,38400,57600,115200**

- **IP address (only for Ethernet)**  Is an identifying number for a piece of network hardware that allows the printer to communicate with other devices over an IP based network.

- **Mask (only Ethernet)**  Defines a subnet mask that is the IP address-like designation of the size of sub network to which a computer or other network device belongs.

- **Gateway (only Ethernet)**  Defines the IP address that is assigned to the device that passes network data from the local network to other networks

---

**NOTE**

If the USB connection is selected, the baud rate of the Virtual COM Port is fixed to 115200 bps. Before use the USB connection, be sure that the provided USB driver was already installed correctly.
SPECIAL SETTING

Configure advanced options which give additional information and diagnostics of the printer.

- **FUNCTIONAL TEST**  This option lets you check the printer’s pneumatic system.
  - Cylinder (approx.): Present values ON or OFF
  - Cylinder (print): Present values ON or OFF

To select the desired value press:

- **SENSOR TEST**  With this simple test, you can check the status of the sensors on your printer.

  - **Ribbon out**  The Hall sensor detects that the thermal transfer (*ribbon*) has run out or been broken.
  - **Ribbon turn**  The Hall sensor detects that the thermal transfer (*ribbon*) motor is rotating correctly.
  - **Ext. signal**  Status of the external signal input.
  - **Home**  (Only for intermittent printers)  The Hall sensor detects whether the print head is in the initial position or not. If the sensor is working correctly, it should read ACTIVE when the print head is in its initial position (on the right).
  - **Cassette**  Hall Sensor detects the presence of the cassette. If the sensor is working correctly, it should change values when you open and close the cassette.

The last line shows the voltage reading and temperature of the print head. Initially the print head should be at a voltage between 24V and 24.5V.
**PRINTED METERS** Internal counter used to know the thermal printhead life. (in function of the printed meters and numbers of prints done). Using this parameters it is possible to know if the printhead is working properly.

- **Password** Authorization code necessary to perform the operation. When you enter the password, the characters will be masked on the screen to prevent unauthorized persons from reading them.

  Password: 3003

If the Password entered is correct, the following values will be displayed:

- **Printed meters** Number of ribbon’s printed meters since the counter’s value was zero.
- **Number of prints** Number of prints done since the counter’s value was zero.
- **Reset counter** Allow to set the counter value to zero (used when the printhead is changed).

**TECHNICAL SERVICE** Additional special functionalities and procedures that should be performed only by qualified service professionals. Access protected by password.

**VERSION**

Displays the software version of the 53XL80 printer and the handset.

**NOTE**

If you have any problem with your printer, please note down the software version before calling your distributor. This information is essential to be able to resolve any problems that may arise.

**SCREEN**

- **LCD contrast** To adjust the LCD contrast.
  Values: from -9 to 9.
6.6 Label parameters

The option LABEL PARAMETERS allows you to edit some parameters of the label.

First, select the label you wish to edit. Once the label is selected, press the key.

The following menu will be showed:

- **Label height** This indicates the maximum label length (coordinate Y).
  Maximum values: 53XL80 = 30 mm

- **Label width** This indicates the maximum label width (coordinate X).
  Maximum values: 53XL80 = 53 mm

- **X-Offset** Displacement of the label with relation to the origin, on the X axis.
  Values: from $-\text{WIDTH}$ to $+\text{WIDTH}$

- **Y-Offset** Displacement of the label with relation to the origin, on the Y axis.
  Values: from 0 to $+\text{HEIGHT}$

- **Ribbon advance (Only for INTERMITTENT printers).**
  Specifies the millimetres of ribbon to be shifted after each print cycle.
  Values: from 3mm to Label height

- **Save variable fields** When the printer ends the print job, there is the option to save or not the current contents of variable fields. If “no” is selected, there is a big time-saving between two consecutives print orders.
  Values: 0 (by default) or 1
6.7 Deleting labels

This option allows you to delete labels from the printer memory.

- **IMAGE**

Delete a single label from the printer’s memory.

Select the label from the displayed list (labels stored in printer’s memory) and press “Enter” for deleting the label.

- **BLOCK**

Lets you delete a set of labels stored into the printer’s memory in a single batch. To do so, you need to select the first and last label to the block.

- **ALL**

Allows you delete all labels stored into the printer’s memory.
6.8 Memory

This option lets you find out how much space is available in the printer memory, format the storage media used for saving labels and restore the printer’s factory configuration.

FREE MEMORY

Displays the memory space available on the printer. That memory corresponds to the printer memory used for storing labels.

QUICK FORMAT

When you perform this operation, ALL LABELS on the printer’s memory will be deleted. Labels cannot be restored, so be careful not to accidentally delete without backup. Labels loss or corruption is the responsibility of the user.

- **Password** Authorization code necessary to perform the operation. When you enter the password, the characters will be masked on the screen to prevent unauthorized persons from reading them.

  Password: 35251

If the password you entered is correct, the message “Formatting” will be displayed. In this case, wait until the message “Format completed” appears.

If the password was not correct, the message “INCORRECT PASSWORD” will be displayed.

RESTORE FACTORY SETTINGS

Restore the printer configuration parameters, such as the intensity and speed of printing, the external signal trigger, etc. to default factory values.

- **Password** Authorization code necessary to perform the operation. When you enter the password, the characters will be masked on the screen to prevent unauthorized persons from reading them.

  Password: 35251

If the password you entered is correct, the message “Restoring...” will be displayed. Otherwise, the message “INCORRECT PASSWORD” will be displayed.
7 Troubleshooting

Please refer to “Appendix A: Error messages” for a more comprehensive description of the possible error messages.
8 Cleaning and Maintenance

**CAUTION**

Hazards during cleaning and maintenance activities!
Switch off the device during cleaning and maintenance work, otherwise personnel safety may be at risk and damage to the device or other nearby property may result.

- Always deactivate the power supply to the device during cleaning and maintenance activities. Pull the mains plug.
- During maintenance and during your absence, secure the device so that no changes may be performed by other persons or situations.
- Maintenance and cleaning work may only be performed by trained personnel.

8.1 Cleaning

**ATTENTION**

Damage to the device due to improper cleaning
Use of improper cleaning methods and the use of incorrect cleaning agents may result in damage to electronic and mechanical components of the device.

- Disconnect the device from the power supply before you begin cleaning.
- Follow the cleaning instructions described in the operating manual.
- Use only cleaning agents specified by the manufacturer.

Clean the handset with a soft clean cloth, if necessary. Permissible cleaning agents are water and isopropyl alcohol. Avoid moisture or liquid to intrude into the device and swipe drops from the device immediately.

8.2 Maintenance

**ATTENTION**

Damage due to improper maintenance – do not disassemble, modify or repair the device.
Changes to or modifications of the device may lead to the expiration of the manufacturer’s warranty.

- For repair or maintenance, please contact the manufacturer or distributor.
9 Maintenance

9.1 Spare parts
Refer to the Spare Parts List under “Fehler! Verweisquelle konnte nicht gefunden werden.” in the appendix.

9.2 Service address

<table>
<thead>
<tr>
<th>Germany</th>
<th>United Kingdom</th>
<th>Spain</th>
</tr>
</thead>
<tbody>
<tr>
<td>Allen Coding GmbH</td>
<td>Allen Coding Systems</td>
<td>Allen Coding Systems</td>
</tr>
<tr>
<td>Service Department</td>
<td>Unit 9, Gateway 1000,</td>
<td>Carretera del Mig, 83-87</td>
</tr>
<tr>
<td>Friedrich-Bergius-Ring 30</td>
<td>Whittle Way, Arlington Business Park,</td>
<td>08940 Cornellà de Llobregat,</td>
</tr>
<tr>
<td>D-97076 Würzburg</td>
<td>Stevenage, Herfordshire SG1 2FP</td>
<td>Barcelona</td>
</tr>
<tr>
<td>Tel.: +49 931 250 76 - 911</td>
<td>Tel.: +44 1438 347 770</td>
<td>Tel.: +34 93 470 56 00</td>
</tr>
<tr>
<td>Fax +49 931 250 76 – 50</td>
<td>Fax +44 1438 347 771</td>
<td>Fax +34 93 473 56 21</td>
</tr>
<tr>
<td>Email: <a href="mailto:support@allen.de">support@allen.de</a></td>
<td>Email: <a href="mailto:info@allencoding.co.uk">info@allencoding.co.uk</a></td>
<td>Email: <a href="mailto:informacion@allencoding.com">informacion@allencoding.com</a></td>
</tr>
</tbody>
</table>

Website: www.AllenCoding.com

NOTE

Important information in case of defects
In case of defects in equipment, please provide the following information:

- Serial number (SNR)
- Equipment type
- Description of fault
- Software- / Firmware-version
- Any affected components/assemblies
10 Transport and storage

10.1 Transport
Transport the device only in the packaging in which you received it.

10.2 Storage
Store the device only under the stated, permissible ambient conditions regarding temperature and humidity. Relevant information is found in this operating manual under “Ambient conditions”. Protect the device against dust and dirt.
11 Disposal

The device consists of various materials which can be recycled and which have to be disposed of separately.

In the event of disposal of the device, follow the relevant legal guidelines. Since the disposal guidelines may differ from country to country, please consult with your supplier as necessary.

Notes to disposal:

- Material types should be disposed of separately. The objective should always be an environmentally compatible disposal which ensures maximum recycling of materials.
- Observe the material and disposal instructions that may be present on certain individual parts.
- Make use of the opportunity to return materials to the manufacturer or supplier.
## Appendix A: Error messages

<table>
<thead>
<tr>
<th>MESSAGE</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>NOT CONNECTED</td>
<td>There is no communication between the PR-5 and the printer.</td>
</tr>
<tr>
<td>RIBBON OUT</td>
<td>Broken or end of ribbon.</td>
</tr>
<tr>
<td>CASSETTE OPEN</td>
<td>The cassette is totally or partially out of the printer.</td>
</tr>
<tr>
<td>KEYBOARD LOCKED</td>
<td>The keyboard has been locked to perform only certain operations (password needed).</td>
</tr>
<tr>
<td>MEMORY FULL</td>
<td>There is not enough free memory in the printer or in the USB Pendrive (depending on operation) to operate.</td>
</tr>
<tr>
<td>HEAD DISCONNECTED</td>
<td>The printhead cable is not connected correctly.</td>
</tr>
<tr>
<td>TRANSMISSION ERROR</td>
<td>The information sent to the printer was corrupted or not correct</td>
</tr>
<tr>
<td>RIBBON PATH ERROR</td>
<td>The ribbon is out of the ribbon path</td>
</tr>
<tr>
<td>ERROR HOME POSITION</td>
<td>The print carriage is not in the HOME position.</td>
</tr>
<tr>
<td>ERROR CHECKSUM FONTS</td>
<td>Error of transmission when downloading fonts</td>
</tr>
<tr>
<td>ERROR CACHE FONTS</td>
<td>Internal memory error when managing fonts</td>
</tr>
<tr>
<td>ERROR SERIAL FLASH</td>
<td>Serial flash hardware error detected</td>
</tr>
<tr>
<td>INCORRECT PASSWORD</td>
<td>Wrong password entered for desired action.</td>
</tr>
<tr>
<td>LABEL NOT FOUND</td>
<td>Label not found or does not exist in the printer or into the USB Pendrive (depending on to the desired action).</td>
</tr>
<tr>
<td>POWER SUPPLY ERROR</td>
<td>Wrong power supply voltage.</td>
</tr>
<tr>
<td>STORAGE DEVICE NOT FOUND</td>
<td>You are trying to perform an operation with the USB Pendrive and it is not inserted.</td>
</tr>
<tr>
<td>DEVICE IS NOT SUPPORTED</td>
<td>A device has been inserted into the USB port that is not a USB Pendrive and is therefore not supported.</td>
</tr>
<tr>
<td>INITIALIZATION ERROR</td>
<td>The USB Pendrive cannot be initialized. USB Pendrive is probably damaged.</td>
</tr>
<tr>
<td>ERROR READING SECTOR</td>
<td>USB Pendrive read error.</td>
</tr>
<tr>
<td>ERROR WRITING SECTOR</td>
<td>USB Pendrive writes error.</td>
</tr>
<tr>
<td>BOOT SECTOR ERROR</td>
<td>USB Pendrive partition boot sector error.</td>
</tr>
<tr>
<td>MBR ERROR</td>
<td>Master boot sector error (contains the memory and master boot partitions).</td>
</tr>
<tr>
<td>LABEL FILE NOT FOUND</td>
<td>Requested file not found on the USB Pendrive.</td>
</tr>
<tr>
<td>CAN'T READ LABEL FILE</td>
<td>Requested file read error.</td>
</tr>
<tr>
<td>ERROR READING DIRECTORY</td>
<td>Requested directory read error (IMPPRX).</td>
</tr>
<tr>
<td>ERROR DELETING FILE</td>
<td>File cannot be deleted.</td>
</tr>
<tr>
<td>FILES SYSTEM NOT SUPPORTED</td>
<td>The USB Pendrive file system format is not FAT or FAT32.</td>
</tr>
<tr>
<td>FILES SYSTEM NOT MOUNTED</td>
<td>The file system has not been created correctly.</td>
</tr>
<tr>
<td>CAN NOT ENUMERATE DEVICE</td>
<td>USB Pendrive identification error in its initialization. To fix, remove and reinser the USB Pendrive.</td>
</tr>
<tr>
<td>UNSPECIFIED ERROR</td>
<td>An error has occurred while using non-standard USB Pendrive.</td>
</tr>
<tr>
<td>IMPPRX FOLDER NOT FOUND</td>
<td>The folder containing formats cannot be found.</td>
</tr>
<tr>
<td>HUBS ARE NOT SUPPORTED</td>
<td>Hubs not supported.</td>
</tr>
<tr>
<td>TRANSMISSION ERROR</td>
<td>The printer has not received data correctly through the RS-232 communication port.</td>
</tr>
<tr>
<td>STORAGE DEVICE ATTACHED</td>
<td>The USB Pendrive has been inserted.</td>
</tr>
<tr>
<td>STORAGE DEVICE DETACHED</td>
<td>The USB Pendrive has been extracted.</td>
</tr>
</tbody>
</table>
Appendix B: How to work with the USB Pendrive data

You are able to work with the USB Pendrive data (that is copying, deleting images...) by means of the Windows Explorer, as a removable disk. All the images should be stored in the **IMPPRX** folder.

**NOTE**

The files extension must be **.imp**

(The JDS7 program creates **.imp** files automatically).
Appendix C: PR-5 Firmware Update

1. **Save the new firmware file into an USB pen drive**

   1.1 Insert an USB pendrive in your PC.

   ![USB Drive Inserted](image1.png)

   1.2 Open (or create) the “fwprx” folder if you want to update the PR-5 handset or the “printer” folder for updating the printer unit.

   ![Folder Structure](image2.png)

   1.3 Copy the new firmware file into the correct folder.

   1.4 Remove the USB pen drive in safe mode.
2.1 Turn off the printer unit.

2.2 Press and hold the dot key (•/A) in the PR-5 keypad.

2.3 Turn on the printer unit. The PR-5 will show the BIOS version.

2.4 Release the dot key.

2.5 After two or three seconds, the PR-5 will show the next message.

2.6 Insert the USB pen drive.

2.7 The PR-5 will detect the drive and will ask you a password. Type “35251”.

2.8 If the password is OK, the PR-5 will ask you if you want to update the printer or handset. Select your target.

2.9 PR-5 will show the firmware files stored in the specific folder (fwprx or printer). Select one of them and press enter key.

PR-5 BIOS v.02.00

Please, insert storage media

Target device

Handset
Printer

Printer Firmware

Handset Firmware

XLVA12.BIN

PR5V258.BIN
PR5V558.BIN
PR5V7A3.BIN
PR5V7A4.BIN

or
2.10 PR-5 will open the file and will start the updating process.

2.11 When the updating process will be finished, the PR-5 will show the connection screen.
Appendix D: EC-Compliance Statement

EC-Declaration of Conformity

Hereby we declare that the equipment named in the following adheres to the protection requirements of the EC guideline 2004/108/EC in regards to its concept, design and version that is marketed by us. Changes that have not been coordinated with us will invalidate this declaration.

Manufacturer:
Allen Coding GmbH
Friedrich-Bergius-Ring 30
D-97076 Würzburg
E-Mail: info@AllenCoding.com
Website: www.AllenCoding.com

Equipment description:
Function: Operation terminal for Printing-Systems
Type/Model: PR5-100594
Year of construction: 2013

The conformity of the named equipment with the rules of the EC guidelines named above is proved by conformity with the following standards:

Applied harmonized standards:
EN61000-6-2:2005 + AC:2005;
EN61000-4-4:2007 + A1:2011;

Additional applied standards:
FCC Rules and Regulations 47 CFR Chapter 1 Part 15 Subpart B (Ed 10-01-10);

Details of signatory persons

Dr. Stefan Boiling
(R&D Manager)
(Name of signer)

Kevin Rütz
(QMS-Representative)
(Name of signer)

Signature

Würzburg, 07.08.2013
(Place, Date)

Würzburg, 07.08.2013
(Place, Date)
## Appendix E: Spare parts

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