

PM ETH PNS

User Manual For PP 40x Printer



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1. OVERVIEW (and characteristics)

The Personality Module *PM SER/PAR/USB/ETH PP40x* (Order No. 8707 241 90119) is a full Web Browser based configuration and administration network interface for the PP 40x printer family. In the following the term **PNS** is used to refer to this module.

Flexibility

The PNS supports various protocols, such as TCP/IP, as well as the most widely used operating systems, Windows and UNIX.

Simple administration

Printer status information can be retrieved at any time by using a Web Browser. In addition, status pages can be printed containing all printer configuration data.

Update

If required, a new printer firmware version can be downloaded to the printer. Using this feature the user benefits from future updates including new printer functions and bug fixing

Monitoring

The PNS displays information about printer status, display status and the complete printer configuration. The page counter (no. of printed pages) is also displayed.

1.1 Further PNS characteristics

Interfaces

- Four interfaces are available at the same time in shared mode operation
 - Ethernet 10/ 100 Network connection - RJ45
(IP, Subnet Mask and Gateway can be setup via Operator Panel, static or via DHCP)
 - Parallel / IEEE1284 - 36 pin
 - USB 2.0
 - Serial / RS232 – 9pin

Supported protocols

- TCP/IP, DHCP, BootP, RARP, IPv4, TCP, UDP, LPD, http, FTP (**Note:** Supported from Release 2*)

Printing protocols

- Socket printing / Raw TCP
- LPR/LPD printing
- FTP printing (**Note:** Supported from Release 2*)

Supported operating systems

- Microsoft Windows
- Systems with TCP/IP Support like Linux, System V based systems (SCO, SunOS 5, ...)

Configuration and management

- HTTP Web Server (WebPanel)
- SNMP (**Note:** Supported from Release 3*)

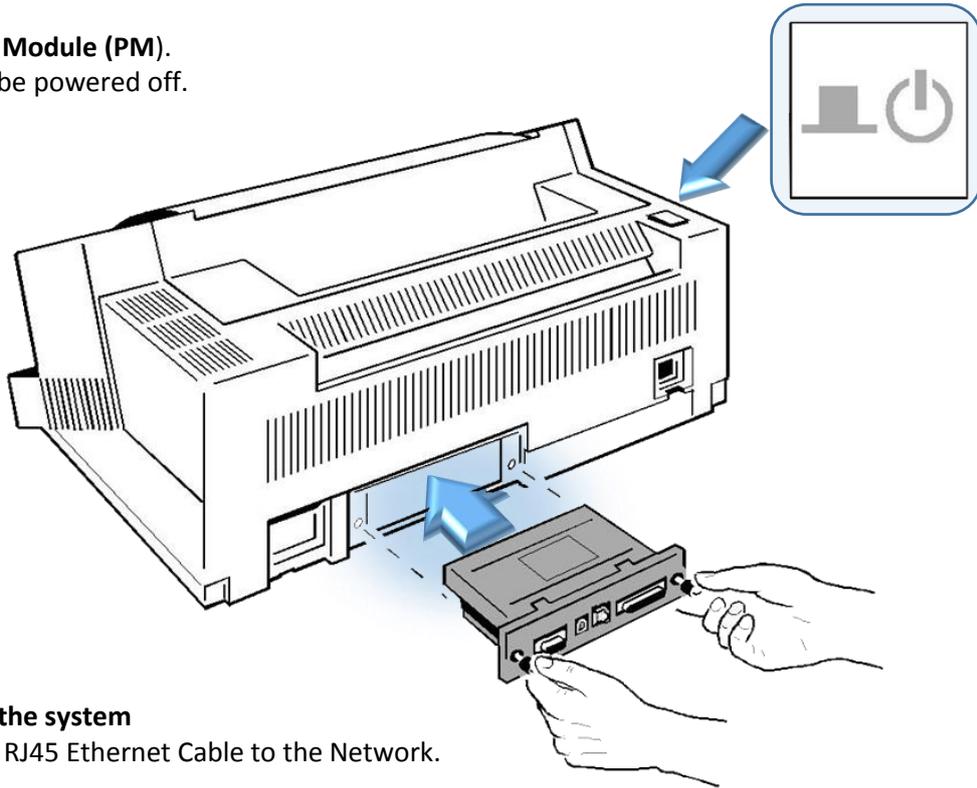
HTTP Web Server

- Printer Identification and actual status
 - Printer name
 - Printer state / Contents of operator panel display
 - Serial number of PNS (personality module)
 - Page counter (pages printed)
 - Firmware Version
- Configuration of basic settings and MACRO 1 to 4
- Network Administration
- Test print outs
- Firmware Download

2. INSTALLATION

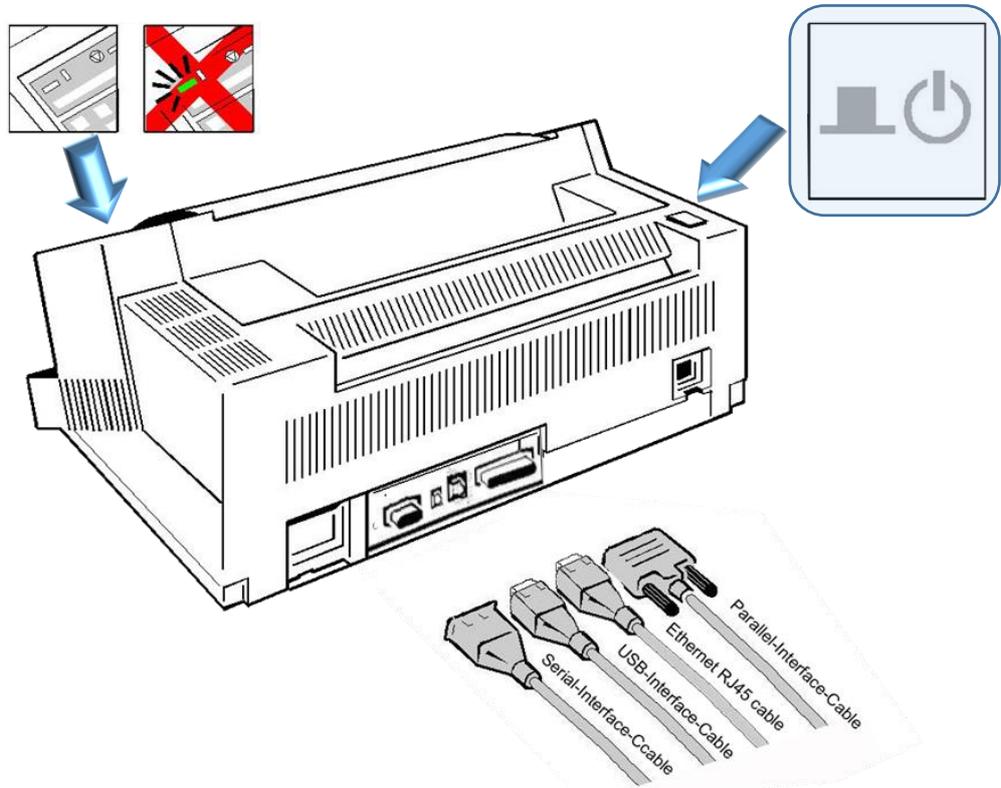
Installation of Personality Module (PM).

Caution: The printer must be powered off.



Connecting the printer to the system

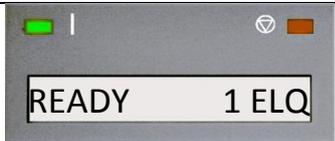
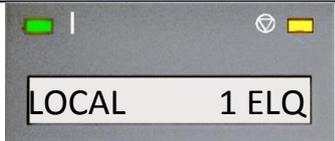
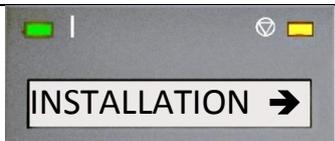
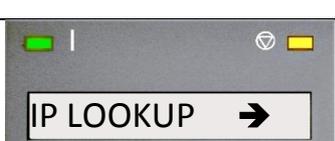
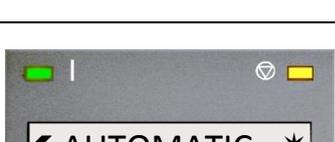
Connect the printer with a RJ45 Ethernet Cable to the Network.

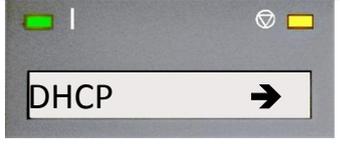
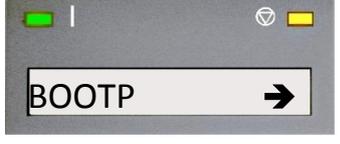
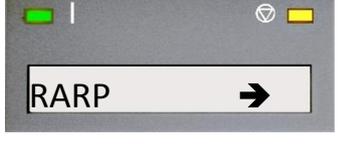
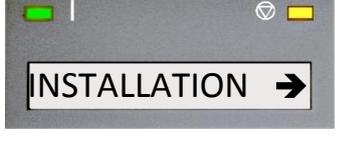


3. CONFIGURATION (via Operator Panel)

3.1 Define the IP Lookup Mode.

This "IP Lookup Mode" defines the method of IP Address handling (manual or automatic).

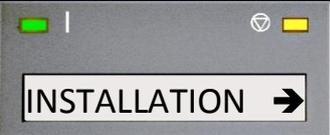
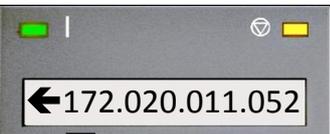
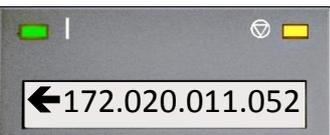
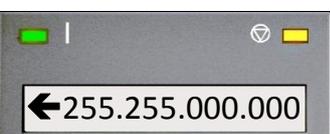
No	Display	Action	Information
1		 Press Start/Stop key for offline / local mode	
2		 Press Menu Button to enter Setup Menu	
3		 Use "key down" to enter Installation Menu	
4		 Use "right key" to enter Interface Menu	
5		 Use "key down" to enter Ethernet Menu	In order to work with Ethernet it's important to enable this function
6		 Use "right key" to enter Ethernet mode	Select Ethernet on or off. This item will be selected by pressing the "right key" again go back.
7		 Use "key down" to enter IP Lookup Menu	
8		 Use "right key" to enter IP Lookup mode	STATIC = Set the IP Address manually. This item will be selected by pressing the "right key" again
9		 Use „down key“ to select Automatic instead of Static	AUTOMATIC = The IP Address should be assigned by DHCP or BootP or RARP protocol. This item will be selected by pressing the "right key" again. Go back and down to select the automatic protocol

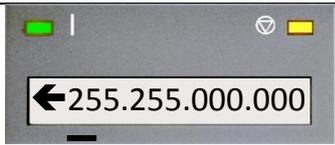
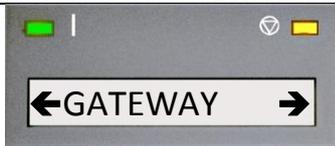
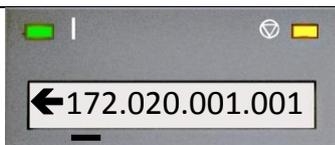
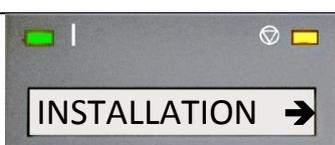
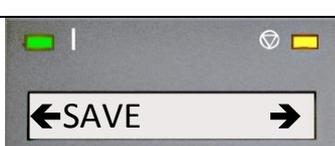
10		  <p>Use „right key“ to enter the DHCP Menu</p>	<p>Select DHCP on or off. This item will be selected by pressing the “right key” again and go back</p>
11		  <p>Use „right key“ to enter the BOOTP Menu</p>	<p>Select BOOTP on or off. This item will be selected by pressing the “right key” again and go back</p>
12		  <p>Use „right key“ to enter the RARP Menu</p>	<p>Select RARP on or off. This item will be selected by pressing the “right key” again and go back</p>
13		 <p>Use „left key“ two times to return to Installation Menu</p>	
14		 <p>Use „down key“ to select Save Item</p>	 <p>Use the “right key” to make your selection permanent</p>
15		 <p>Press Start/Stop key to return to “ready” state</p>	

Note:
Changes become effective after switching the printer off and on again.

3.2 Set up of IP Address, Subnet Mask and Gateway Address manually

This selection is required if the IP LOOKUP mode has been set to STATIC.

No	Display	Action	Information
1		 Press Start/Stop key for offline / local mode	
2		 Press Menu Button to enter Setup Menu	
3		 Use "key down" to enter Installation Menu	
4		 Use "right key" to enter Interface Menu	
5		 Use "key down" to enter "IP ADDRESS" Setup	
6		 Use "right key" to enter the IP Address	<i>Note:</i> Default IP is 0.0.0.0
7		 Select each address digit marked with a bar. Use "up/down key" to change value	If the last digit has been set use the "right key" to make the changes active. The display will blink shortly.
8		 Use „left key“ to return to Interface Menu	
9		 Use the "key down" to enter the "SUBNET MASK" Setup	
10		 Use the "right key" to enter the Subnet Mask	<i>Note:</i> Default Subnet Mask is 0.0.0.0

11		 Select each address digit marked with a bar. Use “up/down key” to change value	If the last digit has been set use the “right key” to make the changes active. The display will blink shortly.
12		 Use „left key“ to return to the Interface Menu	
13		 Use “down key” to enter “GATEWAY” Setup.	
14		 Use “right key” to enter the Gateway Address	<i>Note:</i> Default Gateway is 0.0.0.0
15		 Select each address digit marked with a bar. Use by “up/down key” to change the value	If the last digit has been set use the “right key” to make the changes active. The display will blink shortly.
16		 Use „left key“ two times to go back to the Installation Menu	
17		 Use „down key“ to select Save item	 Use the “right key” to make your selection permanent
18		 Press the Start/Stop key to return to “ready” state.	

Note:
Changes of IP Address, Subnet Mask or Gateway Address become effective after switching the printer off and on again. After firmware update the IP-Adress, Subnet Mask and Gateway will not be lost.

4. HTTP Web Server (PSi Printer WebPanel)

The PNS homepage is embedded in the interface module and can be accessed by means of an Internet browser (Internet Explorer 4.x or later, Netscape 3.x, Opera x.y, Firefox x.y or later). When using other browsers, the full functionality of the print server homepage cannot be guaranteed.

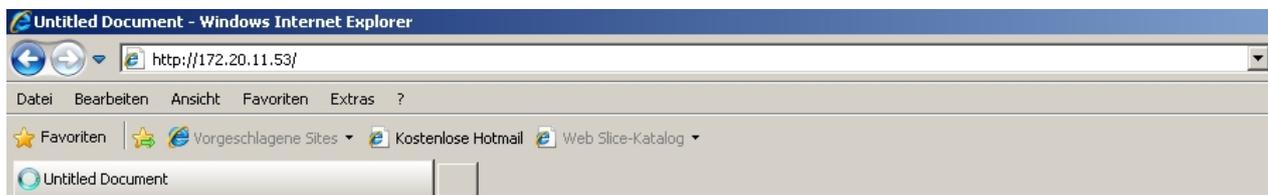
Make sure that:

- PNS is connected and the printer is switched on.
- The IP Address is saved in PNS.

Proceed as follows:

- Open your Internet browser

Enter the IP Address of the PNS as the URL.



The following page will appear:

Welcome to PSi Printer WebPanel

Configuration and Administration

- [Display Current Settings](#)
- [Basic Settings](#)
- [Configuration MACRO 1 - 4](#)
- [Network Administration](#)
- [Configuration Logical Printer](#)
- [Printer Actions](#)

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| [Home](#) | [Technical Support](#) |



Printer Status

Printer:	SIDM PRINTER PP405
Online Status:	READY 1 ELQ
Active MACRO:	1
Firmware:	111109
Serial No.:	PM 00-005756-0
Page Count:	1196
MAC Address:	00:50:c2:aa:40:54
IP Address:	172.20.11.53



Note:

If the PNS homepage does not appear, please check the proxy settings of your browser.

4.1 PNS Startpage Overview

List of configuration and administration pages of PNS. Click one of the highlighted items to select a sub page.

In this part of the web page status information of the printer is displayed. The status is visible on all web pages.

The screenshot shows the PSI Printer WebPanel interface. At the top left, it says "Welcome to PSi Printer WebPanel". Below this is a section titled "Configuration and Administration" containing a list of links: "Display Current Settings", "Basic Settings", "Configuration MACRO 1 - 4", "Network Administration", "Configuration Logical Printer", and "Printer Actions". To the right is the "Printer Status" section, which includes the PSI logo and a table of printer details. Below the status table is an image of three printers. At the bottom left, there is a "Refresh" button and footer information: "(c) 2009 by PSI Printer Systems international GmbH" and links for "Home" and "Technical Support".

Printer:	SIDM PRINTER PP405
Online Status:	READY 1 ELQ
Active MACRO:	1
Firmware:	111109
Serial No.:	PM 00-005756-0
Page Count:	1196
MAC Address:	00:50:c2:aa:40:54
IP Address:	172.20.11.53

Reload page

4.2 PNS Display Current Settings

The page **"Display Current Settings"** shows the actual settings of the printer. These settings can be different from the stored macro items if they have been changed by the user by means of the operator panel or by application software. The order of parameters corresponds to the current settings of the menu print out. Settings are only displayed and can't be changed.

To change items use the function on the page **"Configuration Macro 1 - 4"**. To reload the stored default configuration press the button **"Reload Default Values"**

The screenshot shows the PSI Printer WebPanel interface. The browser address bar indicates the URL is `http://172.20.12.93/current1.htm`. The page title is "PSi Printer WebPanel" and the sub-header is "Display Current Settings".

PSi Printer WebPanel

Display Current Settings

TEAR OFF ADJUST	0 [1/80 INCH] ▾		
UNI-DIRECTIONAL COMMAND	YES ▾		
TRACTOR FORM FEED MODE	IGNORE FF ▾		
FONT	DATA ▾	TRACTOR V_POS	0 [1/80 INCH] ▾
FONT QUALITY	LQ ▾		
GRAPHICS QUALITY	STANDARD ▾	MANUAL V_POS	0 [1/80 INCH] ▾
BARCODE QUALITY	NLQ ▾		
SUB / SUPER FONT	YES ▾		
PITCH	10 CPI ▾		
LINE SPACING	8 LPI ▾		
PAGE LENGTH	72 LINES ▾		
LEFT MARGIN	1 COLUMNS ▾		
RIGHT MARGIN	136 COLUMNS ▾		
TOP MARGIN	1 LINES ▾		
BOTTOM MARGIN	1 LINES ▾		
PERFORATION SKIP	YES ▾		
PAPER SOURCE	TRACTOR ▾		
PAPER EXIT	FRONT/KEY ▾		
EMULATION	EPSON LQ ▾		
CHARACTER SET	EPSON EXT. GCT ▾		
NATIONAL VERSION / CODE PAGE	GERMANY ▾		
LINE MODE	LF=LF, CR=CR ▾		
\$\$ COMMANDS	NO ▾		
TEAR OFF MODE	NO ▾		

[Reload Default Values](#)

Printer Status

Printer:	SIDM PRINTER PP404
Online Status:	READY 1 ELQ
Active MACRO:	1
Firmware:	815571
Serial No.:	PM 00-005755-0
Page Count:	1248
MAC Address:	00:50:c2:aa:40:53
IP Address:	172.20.12.93

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[Home](#) | [Basic Settings](#) | [Configuration MACRO 1 - 4](#) | [Network Administration](#) | [Configuration Logical Printer](#) | [Printer Actions](#) | [Technical Support](#)

4.3 PNS Page Basic Settings

The page **"Basic Settings"** shows the actual Basic Settings of the printer which can be changed by drop down menu bars. Changes of settings can be made valid and permanent by pressing the "Save" button.

"Basic Settings" are global settings outside of the Marcos. The definition is described in the User's Manual of the respective printer.

Basic Settings

MACRO SELECT	MACRO 1 ▾
LANGUAGE	ENGLISH ▾
TEAR OFF ADJUST	0 [1/80 INCH] ▾
UNI-DIRECTIONAL COMMAND	YES ▾
TRACTOR FORM FEED MODE	IGNORE FF ▾
BELL	OFF ▾

Save

4.4 PNS Page Configuration Macro 1 - 4

The page "Configuration Macro 1 - 4" shows the actual settings for each user defined macro stored in the printer. The order of parameters corresponds to the menu print out. Settings can be changed by drop down menu bars. Available parameter values are shown and can be selected. Changes of settings can be made valid and permanent by pressing the "Save" button.

Select one macro to display and change the default settings.

PSi Printer WebPanel

Configuration MACRO 1 - 4

Select MACRO to change

MACRO 1 ▾

FONT	DATA ▾	TRACTOR V_POS	0 [1/80 INCH] ▾
FONT QUALITY	LQ ▾		
GRAPHICS QUALITY	STANDARD ▾	MANUAL V_POS	0 [1/80 INCH] ▾
BARCODE QUALITY	NLQ ▾		
SUB / SUPER FONT	YES ▾		
PITCH	10 CPI ▾		
LINE SPACING	8 LPI ▾		
PAGE LENGTH	72 LINES ▾		
LEFT MARGIN	1 COLUMNS ▾		
RIGHT MARGIN	138 COLUMNS ▾		
TOP MARGIN	1 LINES ▾		
BOTTOM MARGIN	1 LINES ▾		
PERFORATION SKIP	YES ▾		
PAPER SOURCE	TRACTOR ▾		
PAPER EXIT	FRONT/KEY ▾		
EMULATION	EPSON LQ ▾		
CHARACTER SET	EPSON EXT. GCT ▾		
NATIONAL VERSION / CODE PAGE	GERMANY ▾		
LINE MODE	LF=LF, CR=CR ▾		
\$\$ COMMANDS	NO ▾		
TEAR OFF MODE	NO ▾		

Save

4.5 PNS Page Network Administration

The page **“Network Administration: General Settings / TCP/IP”** shows actual settings of network modes and protocols. Changes of settings can be made valid and permanent by pressing the **“Save”** button. The button **“Cancel”** ignores changes and restores the previous settings.

Network Administration: General Settings / TCP/IP

General Settings

Host Name:

Location:

TCP/IP

Static:

IP Address: assigned via DHCP

Subnet Mask:

Gateway:

Automatic:

Note: Changes of IP Address, Subnet Mask or Gateway Address become effective after switching the printer off and on again.

4.6 PNS Configuration Logical Printer

The page **“Configuration Logical Printer”** offers the features to define a logical printer and the related port address or LPD Queue name. (**Note:** In PNS Release 1 only one logical printer is selectable.)

Please ensure the box **“Logical Printer Enabled”** is enabled. Otherwise no print services are available.

Configuration Logical Printer

Select Logical Printer to change:

General Settings

Logical Printer Enabled:

Printing Protocol Settings

Raw TCP Printing:

TCP/IP Port:

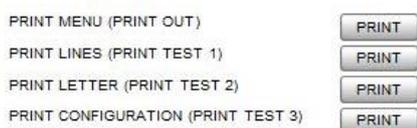
LPD Printing:

LPD Queue Name:

4.7 PNS Page Printer Actions

The page **“Printer Actions”** offers features to start printer internal tests in the same way as from the operator panel and the download of a new printer firmware.

Printer Actions



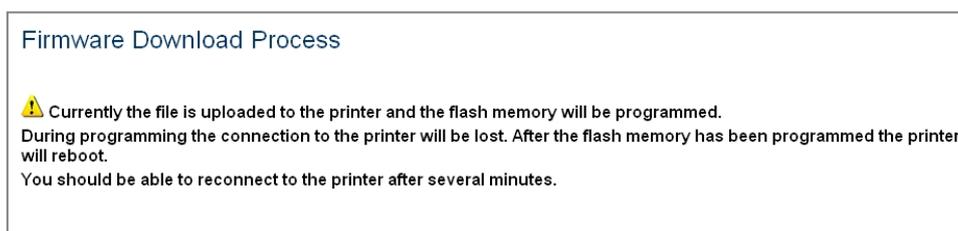
- Print Menu - Basic and Macro Settings are printed on the printer
- Print Configuration – The Complete Configuration Sheet (HW) is printed
- Print Test Page – The so called Dr. Grauert letter (DIN Letter) is printed

4.8 Printer Firmware Download

In order to load a new printer firmware first select a PNS printer firmware file (extension .mot) from a folder and press the **“SEND”** button to download the new firmware into the printer.



The following message will appear.

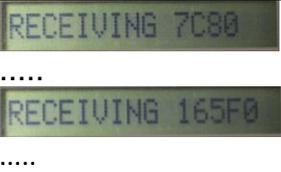
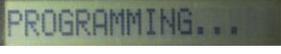
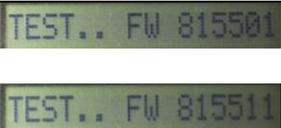
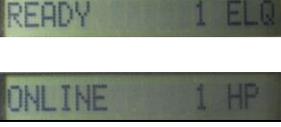


Download and reprogramming of the FLASH memory will take a few minutes. After the download is completed the printer restarts automatically with the new firmware.

Then, the Internet connection must be restarted.

4.9 Performing FW-Update via USB or parallel port

while older FW of PNS hasn't the function firmware update on internal WEP- Side.

No	Display	Action
1		Remove paper out of the printer
2		Ensure that the parallel or ethernet connection is working. Perform a test printing sent from your PC.
3		Switch off the printer
4		Keep red button pressed and switch on the power
5		Wait until... (the numeric value shows the version of the bootloader)
6		...this display occurs. Then release the red button. Now the printer is ready for data receiving
7		Start data transmission from PC relating to the tool used.
8		Data receiving is running.
9		The data is stored.
10		An acoustic sound is played. The update was successful.
11		Wait 5s for another file.
12		Performing automatic reset
13		Check that ribbon is installed. Then quit with red button.
14		The automatic AGC Adjust is performed. Inserted paper is thrown out before.
15		Display of the installed firmware, which can differ.
16		Initialization is done. The display can differ related to the installed emulation.