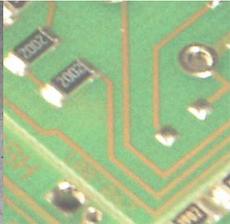


Product series PCD7.D5xxCF and PCD7.D5xxRF Configuration of the devices



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0.1 Document Process

Version	Updated	Author	Comments
ENG01p	2020-04-22	D. Sch.	- First draw in Word
ENG01	2020-07-20	M. H.	- New format InDesign
ENG02	2020-07-29 2020-11-09	M. H. M. H.	- Ch. 1.2.1 The Settings Page - picture added - Linked the hyperlinks

0.2 Trademarks

Saia PCD® is a registered trademark of Saia-Burgess Controls AG.

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1 First and quick start of device

1.1 First start of the device

After starting up the device the first time you are located on the settings page, you need to login to the setup menu to configure the device. By default, the username and password are admin.

The screenshot shows a login interface with the following elements:

- Buttons at the top right: "Clear cache" and "Load Homepage".
- Input field for "Username".
- Input field for "Password".
- Buttons at the bottom: "Back" and "Proceed".

After entering the configuration menu, the first time. The user is forced to change the admin password. This password must follow security requirements and must be remembered all the time to be able to change the configuration of the device.

New password: _____

The screenshot shows the "Authentication" page with the following elements:

- Header: "Authentication" and "ADMIN" with a refresh icon.
- Section: "Users".
- Warning message: "Password change required by policy! NOTE: system will reboot upon success".
- Form fields: "Username" (value: user), "New Password", and "Confirm Password".
- Button: "Change Password" with a gear icon.
- Requirements list:
 - At least 8 characters in total
 - At least one lower case and one upper case letter
 - At least one numeric character
 - At least one special character (eg. # ! @ ?)



Note:

The password cannot be cleared or reset in case it is forgotten, a device factory reset to factory default will not recover the password. If you lost your admin password of the device, please contact your local support agents to get the password reset.

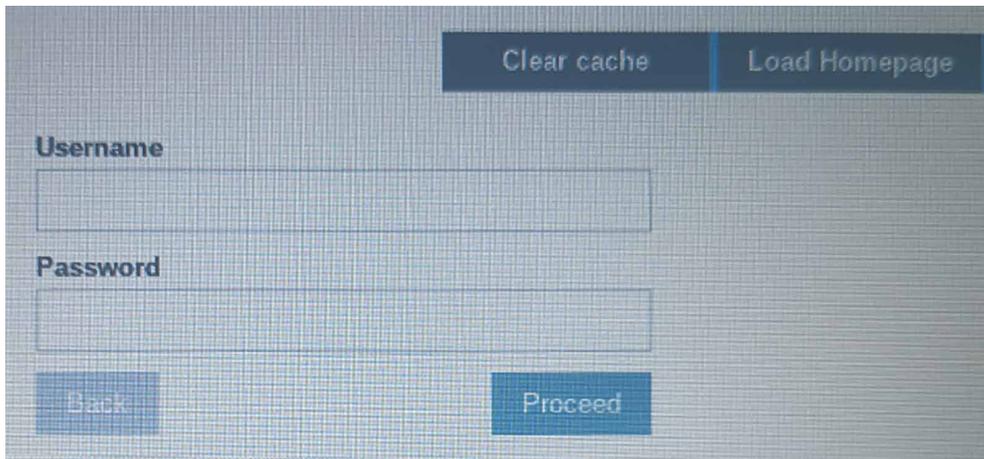
Configuration of the web client

1.2 Configuration of the web client

1.2.1 The Settings Page

The settings page is the default start page.

Enter you credentials to open the configuration menu or press Load Homepage on the write top to access the configuration done in the web browser setup. If you download a new application, you can force the panel to clear the cache.

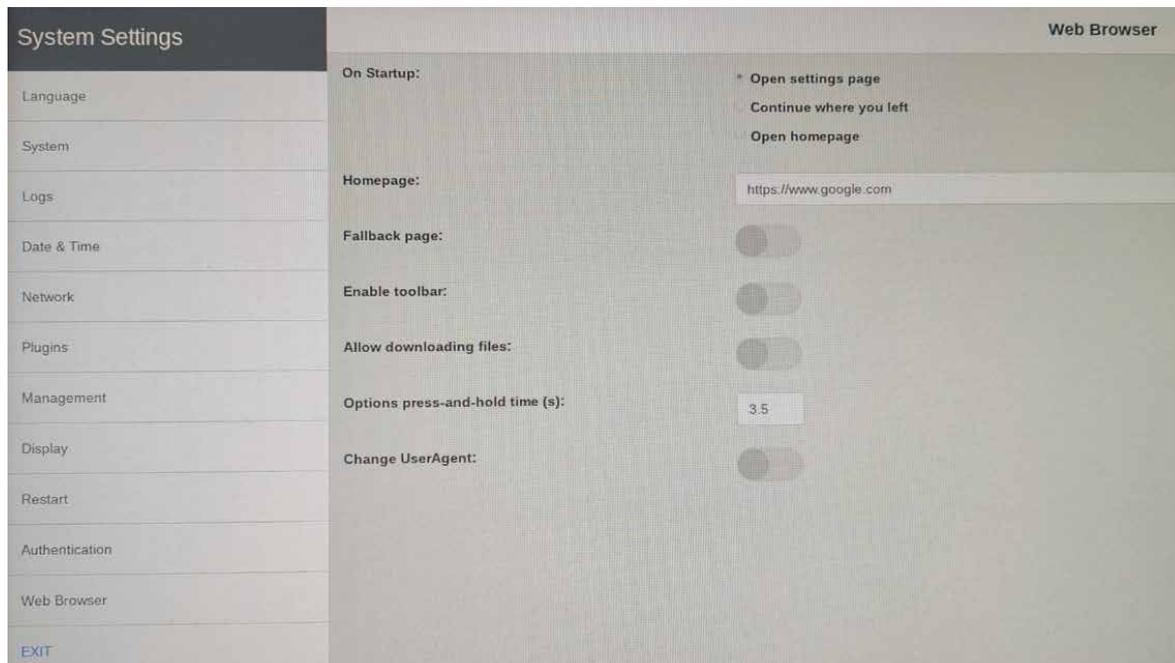


On the HTML5 web application, pressing for 5 seconds on the top left corner of the web-panel touch screen will open the settings page.



1.2.2 The Web Browser Settings

After entering the configuration menu, you are forwarded to the Web Browser configuration. To change the web Browser configuration, press the button EDIT on the right top on the page.



Change the “on start” behavior of the device

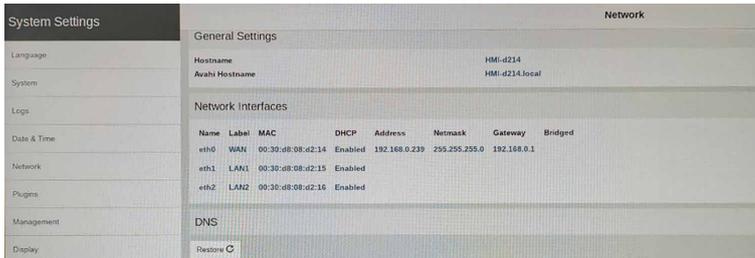
Item	Default	Description
On Startup	Open settings page	After a restart of the device the setting page is displayed
	Continue where you left	Jump to the application where you left
	Open homepage	Open the configured Homepage
Homepage	https://google.com	Enter here the start page which you like to load as homepage including http:// or https://

Configuration of the web client

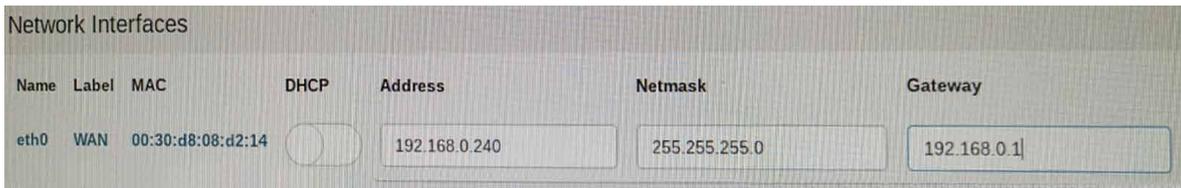
1.2.3 Configure the Network interface

By default, all network interfaces are configured for DHCP. The ETH0 (For PCD7.D5xxCF beside the power connector) is configured as WAN port. If you connect the panel to the network using ETH0 and a DHCP server is running the IP-Address is automatically requested from the DHCP server.

If no DHCP server is available or can't be used on site, the configuration can be changed to static IP configuration. To configure the network interface, open the "Network" tab and press the EDIT button on the top right.



Disable the DHCP switch will allow you to enter the IP-Address manually. After you press save the manually entered IP address will be used for the device.



	<p>Note: The device has an internal firewall which blocks all incoming network traffic, including ICMP ping requests. Therefore, you can't ping the device to test the network connectivity.</p>
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1.2.4 Finish Quick start

The device is now correctly configured to load the homepage you entered.

Therefore, you can close the setup menu to access the homepage by clicking EXIT in the System Settings list. Depending on the Web Browser configuration "On Startup" the application gets directly opened or you need to press Load Homepage on the Settings Page.



2 Touch screen calibration

System Setting Calibration allows to calibrate Touchscreen device and can be accessed by the tap-tap procedure.

Tap-tap consists in a sequence of several touch activations by simple means of the finger tapping the touch screen performed during the power-up phase and started immediately after the HMI is powered on.



When “tap-tap detected” message appears on the top of the screen, wait for 5 seconds (without touching the screen) to enter System Settings sub menu



Press on touch screen, “Touchscreen calibration” voice will be highlighted in yellow, hold pressed for few seconds until touchscreen calibration procedure starts.



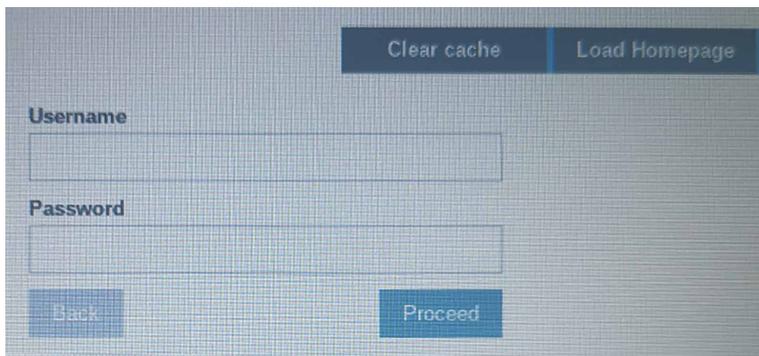
Follow the instructions on screen to complete the calibration procedure, system will prompt to touch specific points to calibrate the touchscreen device.

In compliance with the above regulations the products are CE marked.

Open the System settings menu

3 Open the System settings menu

The system settings menu is entered after power on the device and entering valid credentials “Username” and “Password” into the login mask.



3.1 The system settings

On the left side in the system Settings screen the main topics of configuration is listed

System Settings		
Language	Language	Setup the language of the device
System	System	System information, Status and Timers
Logs	Logs	Configure logfile generation
Date & Time	Date and Time	Configure the date and time of the device
Network	Network	Configure the network settings of the Ethernet interfaces
Plugins	Plugins	Not used
Management	Management	Firmware updates and basic FW and booter configurations
Display	Display	Display setup like colors, timeouts and touch screen calibration and more
Restart	Restart	Restart the main or config OS
Authentication	Authentication	Change passwords or create SSL certificates
Web Browser	Web Browser	Configure the web browser properties like home page
EXIT	Exit	Will close the system settings view
Language	Select the language for the system settings interface	
<ul style="list-style-type: none"> ■ System keyboard layout: select the layout of the virtual keyboard 		

3.2 System

Parameter	Description
Info	Device information
Status	Device status (Free RAM, Up time, CPU Load)
Timers	Device timers (System on, Back light on)
PlugIn	Hardware plugins information (not used)

3.3. Logs

Set the persistent log option if you want maintain the log files saved after a power reset. Use save button to export a copy of the log files.

The log files manager cyclically fills 3 files of 4Mb

3.4 Date & Time

Device date and time.

3.5 Networks

Network parameters. Available parameter in edit mode:

Parameter	Description
Current Timezone	Timezone region
Current Date Local Time	Date and Time can set manually only when the Automatic Update is disabled.
Automatic Update (NTP)	Enable to keep date and time synchronized from a remote server <ul style="list-style-type: none"> ■ NTP Server Specify the Internet NTP Server address
General Settings	Device hostname Avahi Hostname (see " Avahi Daemon " below)
Network Interface	Network parameters of the available interfaces <ul style="list-style-type: none"> ■ DHCP ■ IP Address ■ Net Mask ■ Gateway
DNS	DNS Servers Generally provided from the DHCP servers, but can be modified in edit mode Search Domains Optional domains that will be used in concatenation with the provided urls

3.6 Plugins

This page will show the parameters available to configure the optional plugins modules attached to the HMI device. See the description of each plug-in module to additional information.

Open the System settings menu

3.7 Management

From the management area is possible “Update System Components” on page 18 of the HMI device.

	<p>CAUTION:</p>	<p>Working in the Management area is a critical operation and, when not performed correctly, may cause product damages requiring service of the product. Contact technical support for assistance.</p> <p>Use the “Clear” command inside the “Data” section to remove HMI Runtime from the device (Factory Restore)</p>
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3.8 Display

Parameter	Description
Brightness	Brightness level of the display
Back light timeout	Backlight inactivity timeout
Orientation	Display orientation

3.9 Restart

HMI device restart command

3.10 Authentication

Enter in edit mode to change the authentication passwords.

3.10.1 x.509 Certificate

HMI Device use a self-certificate to encrypt the Internet communication through the HTTPS protocol. You can personalize the certificate with the data of your Company and ask to a Certificate Authority to firm it.

The procedure to personalize and firm your certificate is:

1. Enter in edit mode and fill the necessary parameters, then generate the new certificate with your data.
2. Export the "Certificate Signed Request"
3. Sent the "Certificate Signed Request" to a Certificate Authority to firm it (general this is a paid service)
4. Import the signed certificate into the HMI device

3.10.2 Certificate's parameters

Parameter	Description
Device Name	The name of your device
Organization	The legal name of your organization
Unit	The division of your organization handling the certificate
State	The state/region where your organization is located
Location	The city where your organization is located
Country	The two-letter ISO code for the country where your organization is location
Valid (days)	Validity of the certificate
Key Length	Number of bits of the key used from the cryptographic algorithm

3.11 Web Browser

Parameter	Description
On Startup, open Settings page	After a restart of the device the setting page is displayed where you can enter the setup menu or device configuration
On Startup, continue where you left	After a restart of the device the last active page will be loaded. This setting does not work for project having a runtime like the Web Editor 8 or supervisor and will always start with the start page assigned for the project.
On Startup, open homepage	After a restart of the device, the homepage is directly loaded

Selecting continue where you left or open homepage will now longer allow you to enter the setup menu.

3.12 Exit

Exit from the System Settings.

Create the recovery USB device

4. Factory reset

The factory reset sets back the device properties and settings to factory default.

What you need:

1. A USB
2. The chromium runtime for the device un6x-chromium-xx-x.x.zip

4.1 Create the recovery USB device

Format the device with a FAT32 filesystem and copy the complete file “un6x-chromium-xx-x.x.zip” onto the USB

4.2 Restore the device from USB

Plugin the recovery USB device to the Panel you like to reset. To start the factory reset use the Tap-tap function consists in a sequence of several touch activations starting directly after powering on the device.



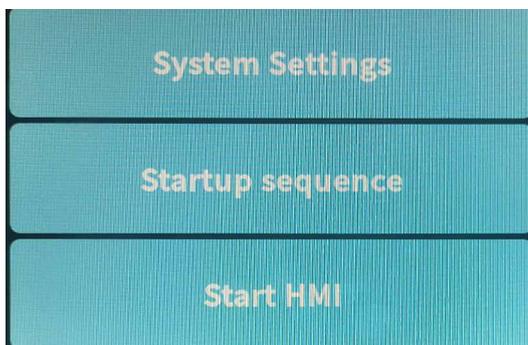
When “tap-tap detected” message appears on the top of the screen, wait for 5 seconds (without touching the screen) to enter System Settings sub menu



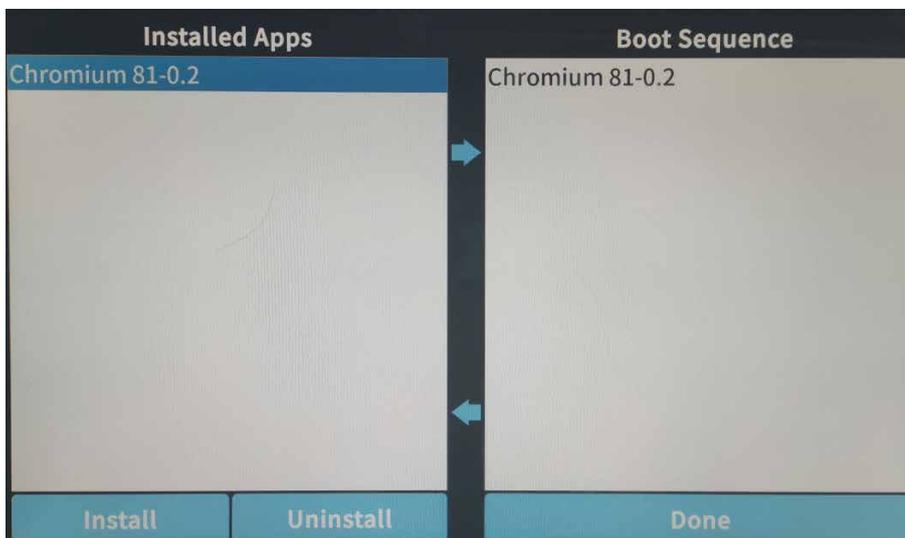
don't touch the screen to jump into the Default Mode of the device.



Open the Startup sequence

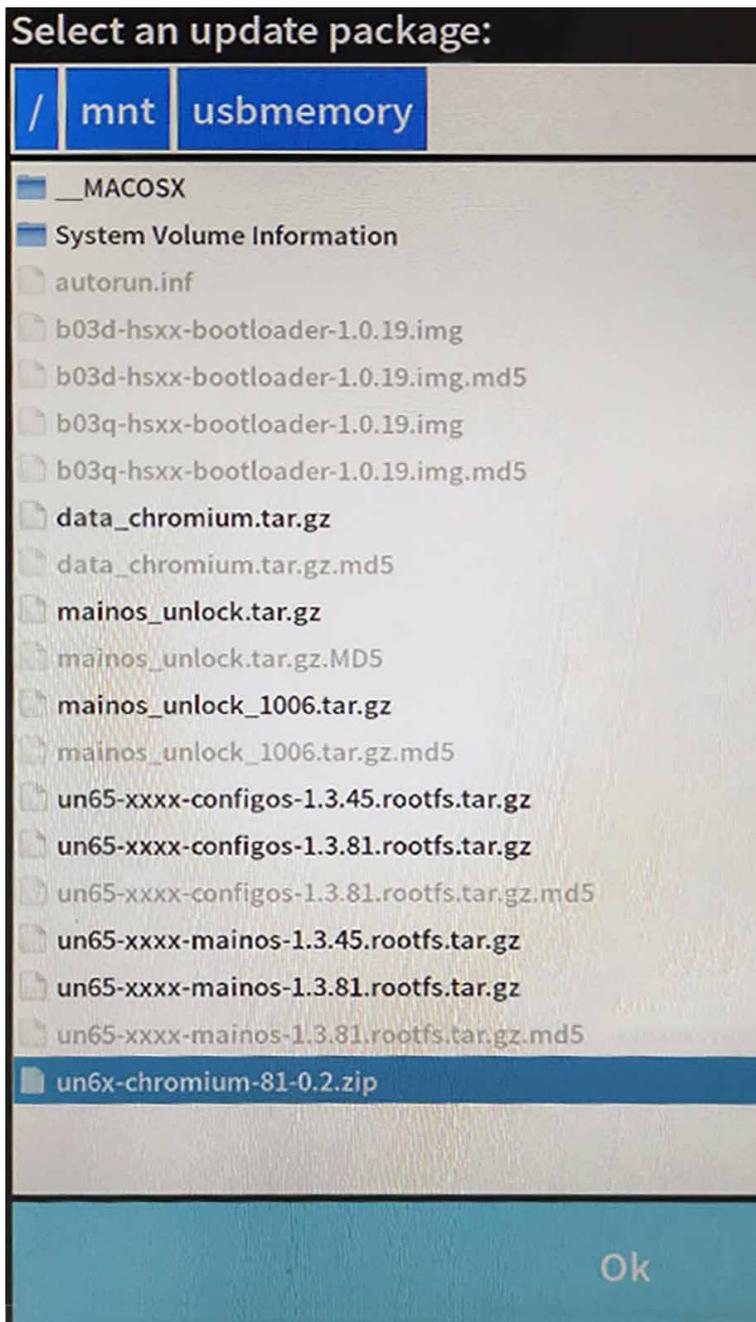


On the installed Apps on the left select the Chromium version and press Uninstall



Restore the device from USB

After both fields are empty press Install and browse to the file “un6x-chromium-xx-x.x.zip” located on mnt/usbmemory



Select the file “un6x-chromium-xx-x.x.zip” and press install

Wait or press done to execute the restart sequence

Saia-Burgess Controls AG

Bahnhofstrasse 18 | 3280 Murten, Switzerland
T +41 26 580 30 00 | F +41 26 580 34 99

www.saia-pcd.com

support@saia-pcd.com | www.sbc-support.com

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