



MODE OPERATOIRE 004

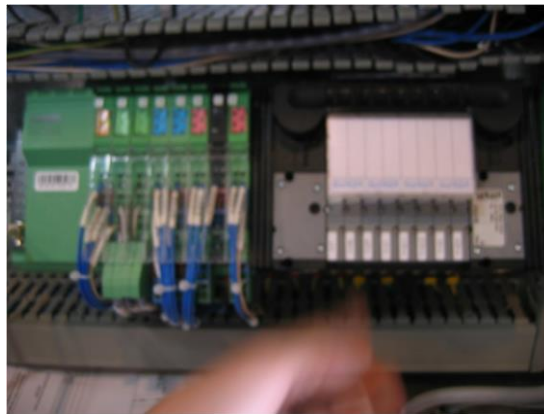
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Date : 25/05/2010

OBJET : BootP and Phoenix bus controller configuration

Procedure

This procedure explains how to configure the Phoenix bus controller (see Figure 1) located in the machine electrical box in order for it to be correctly detected by the PC.



[Figure 1.](#) Phoenix rack.

1. Check the KT-S1 Siemens module that handles the temporisation for the PC stop when the machine is powered off (see Figure 2). This module needs to be configured with the following values : 70% and 60s (screwdriver needed).



[Figure 2.](#) KT-S1 module.

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2. Power on the machine with the isolating switch and the « Power on » button located on the control box. Put the FD1 circuit breaker in ON position (see Figure 3).



[Figure 3.](#) FD1 circuit breaker.

3. A digital display is present on the Phoenix bus controller and is located at the left of the rack (see Figure 4). It must display « 01 » or « PP ». The LEDs below the digital display show the state of the network connection. If no network cable is connected then all the LEDs are off.



[Figure 4.](#) Phoenix bus controller start.

4. Connect with a crossover cable the laptop dedicated for the Phoenix configuration to the network socket located at the left of the bus controller. The laptop should have the following network configuration :
IP address : 169.254.233.13
Subnet mask : 255.255.255.0
5. Start the IPAssign software (see Figure 5). A shortcut to access this software is present on the desktop of the laptop.

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Figure 5. IPAssign.

- The software scans the connected interfaces having no IP address configured (see Figure 6). The Phoenix bus controller is located with its MAC address. You should see this address on the controller and look for this MAC address in the list, select it and press « Suivant ».

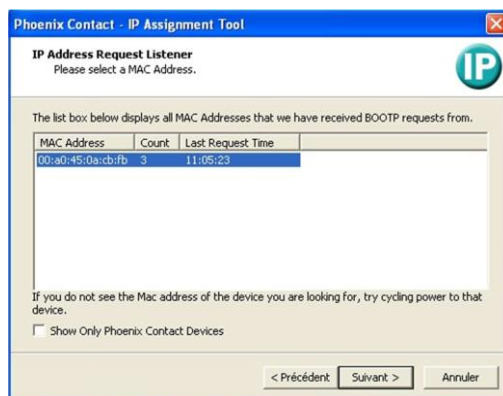


Figure 6. MAC address scan.

- We will know in the next page (see Figure7) configure the controller IP address with the following parameters :
IP Address : 169.254.233.50
Subnet Mask : 255.255.255.0

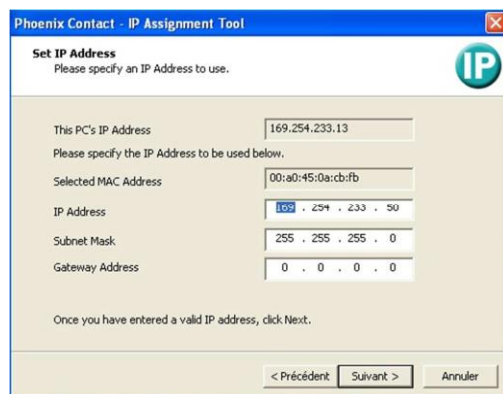


Figure 7. IP address configuration.

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- Press « Suivant » and « Terminer » to close the program (see Figure 8).



Figure 8. Exit IPAssign.

- Once the IP address is configured you can now connect to the bus controller using a web interface. Open Internet Explorer for example and type the following address (see Figure 9) :
<http://169.254.233.50>

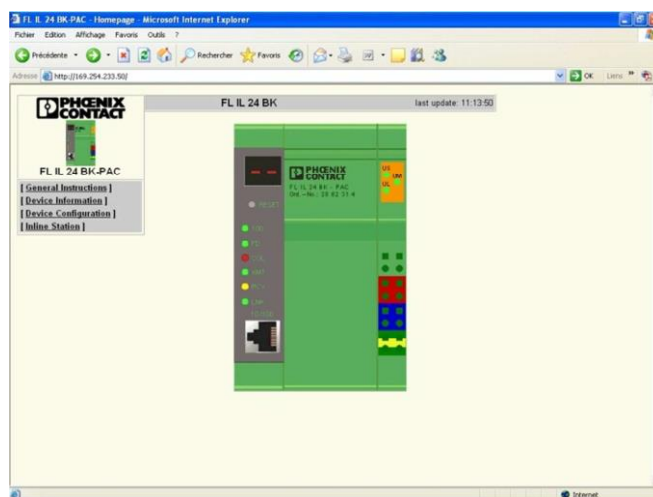


Figure 9. Phoenix web interface.

- First, go to « Inline Station->Bus Configuration » (see Figure 10). You have to check that the LEDs of the Phoenix modules are all still green and that you have the same view on screen than what you have in the electrical box. If the view is not the same, then you need to check the connection of the I/Os modules and of the electrovalves. Furthermore, the electrovalves are not differentiated from the digital output modules on the screen. So a module of X electrovalves appears in the web interface with the label « Module with X digital outputs », where X is the number of electrovalves.

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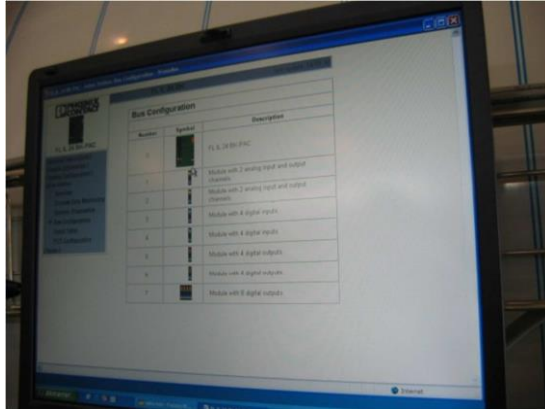


Figure 10. Modules configuration.

11. Go to « Inline Station->Services ». Modify the configuration of « Plug&Play Mode » to « Disable ».

12. In the text field below, type the following password :

private

13. Click on the « Apply » button (see Figure 11).

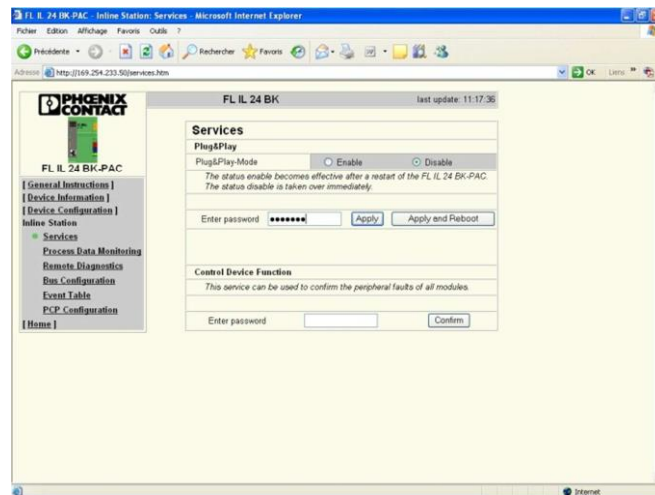


Figure 11. Disable the Plug&Play mode.

14. Once this action is done, the digital display should show « -- ».

15. Go to « Inline Station->Process Data Monitoring ». You need to modify the value of « Fault Response Mode » to « Standard Fault Mode » and the value of « Process Data Watchdog Timeout » to 2000 ms. Once these modifications are done, type the following password below :

private

16. Click on « Apply » (see Figure 12).

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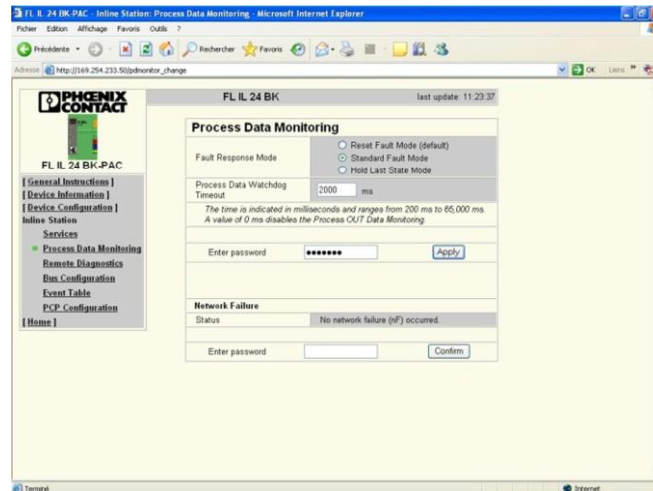


Figure 12. Watchdog configuration.

17. To finish, go to « Device Configuration->IP Configuration », type the password **private** and click on « Reboot » (see Figure 13-14-15). The bus controller configuration is finished. The sequence of boot on the digital display should be like the following : « 01 » -> « bo » -> « 02 » -> « -- ».

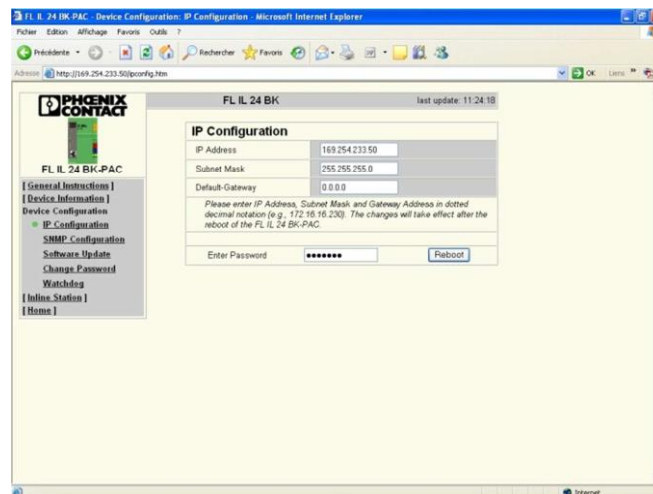


Figure 13. Reboot - Phase 1.

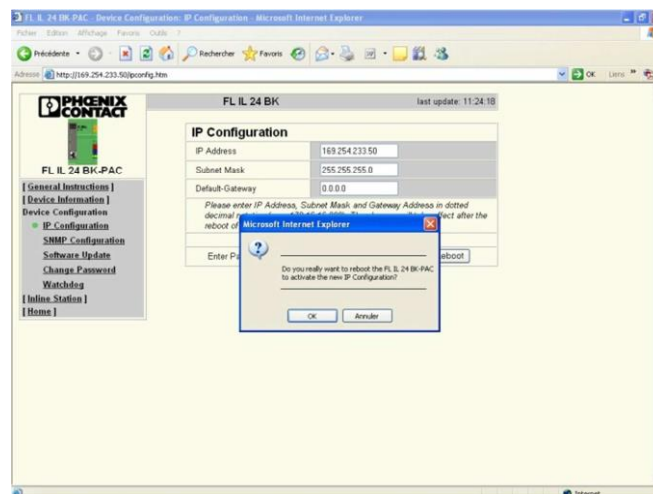


Figure 14. Reboot - Phase 2.

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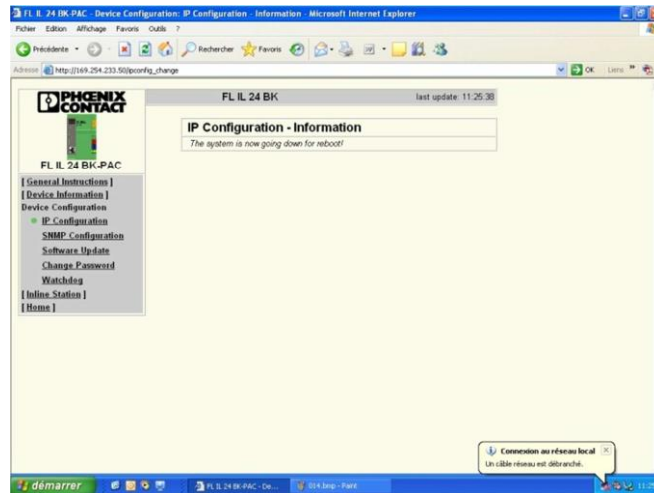


Figure 15. Reboot - Phase 3.