

E+HMI¹⁵⁰ Panel Configuration

The E+HMI150 panels are intended for use with the E+PLC400 precision PLC.

From time to time upgrades may be available. These may be downloaded from www.eurotherm.com/ehmi.

Configuration means:

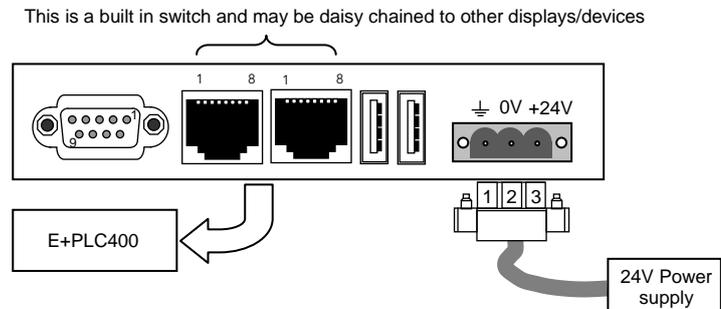
- Setting the IP address
- Loading the settings for the HMI

For related information please refer to the E+PLC400 Hardware Reference Guide part number HA031923. This may be downloaded from www.eurotherm.co.uk.

1. Connections

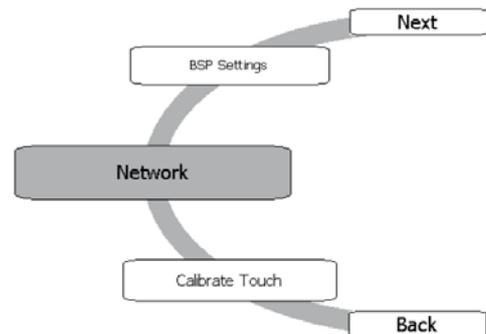
Connect the panel to external equipment in accordance with your particular set up.

An example is shown for a local connection. A PC may be connected if it is considered of extra help.



2. Procedure

1. Switch on
2. The panel will normally boot up into the 'Main OS', however, network configuration needs to be carried out in the 'Configuration OS'. To enter this mode, at the instant of power up, tap the E+HMI screen rapidly and repeatedly until a message 'Tap Tap is Detected Going to Config Mode' appears. This is followed by the Systems Settings tool shown - this may take several seconds.
3. Tap 'Next' (or 'Back') until 'Network' is shown.



3. Set up the IP address

1. Tap on 'Network'. A window appears which allows an IP address to be entered.
2. The default is 'Obtain an IP address via DHCP'. For the network example shown here select 'Specify an IP Address'.
3. Tap into the IP address, this opens a keyboard on the E+HMI screen. Enter a valid IP address either through the E+HMI screen or it may be found more convenient to use an external keyboard.
4. It may only be necessary to enter a Gateway address if an external router is used in your particular system.
5. Tap 'OK'. An error message, 'Invalid IP Address', may appear if a Gateway address has not been entered. This may be accepted by pressing 'OK'.
6. Press 'Back' (or 'Next') to select 'Restart'. A 'Restart pop up' window gives the choice to restart 'Main OS', 'Configuration OS' or 'Force Restart'. Select 'Main OS' and click OK.

4. Import/Export 'RemoteVisu' Configuration file to/from the HMI Panel.

The configuration file is copied to a memory stick for editing and then copied back to the HMI panel.

4.1 Preparing a USB memory stick.

The following steps are carried out on a PC.

1. Select a USB memory stick with FAT32 format.
2. Using a text editor such as Notepad create the following line:


```
cmd /C \Flash\RemoteVisu\import_export.bat
```
3. Save the text file with the name "autoexec.bat" on the root directory of the USB memory stick. (Make sure that system files can be viewed). The memory stick may now be safely unplugged.

 Note: The memory stick must not contain any other configuration files in the RemoteVisu folder.

4.2 Carrying out the Import/export process.

1. Start HMI panel and wait until it is booted into the HMI application, for example, CODESYSRemoteVisuWinCEV3. Note: error messages will be shown if the panel is not configured/connected to the E+PLC400.
2. Plug the USB memory stick into the HMI panel. The import/export process will start automatically.

Since no configuration file is found, the current configuration is copied from the HMI to the memory stick. The message shown here is displayed.

```
Version 1.0
RemoteVisu Import/Export utility .....
.....
.....
.....

Exporting RemoteVisu configuration file...
RemoteVisu configuration file exported correctly to
\\USBMemory\RemoteVisu\CodesysControl.cfg.
Please unplug the USB stick and close window to return to RemoteVisu application
Press any key to continue...
```

3. Close the window. Use File → Close or X in the top right hand corner of the HMI or any key on the keyboard.

4. The configuration file (“CodesysControl.cfg”) is now exported to the USB memory stick, which can now be safely unplugged. The file can be modified on a PC using a text editor. This file is stored in the following location of the USB memory stick.

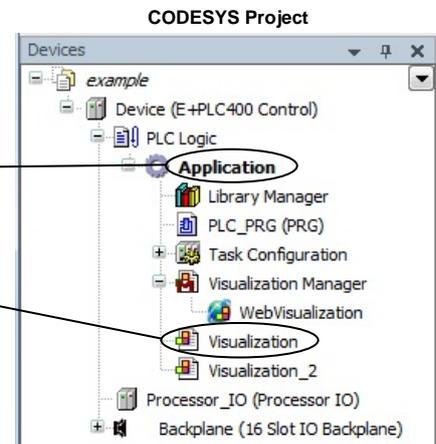
“\RemoteVisu\CodesysControl.cfg”

5. Using the text editor, open the file to edit the three lines shown here.

“Communication.TcpAddressDest” set the ip address of the E+PLC400.
 “VisuClient.VisuAppName” set the application name of the CoDeSys project.
 “VisuClient.StartVisu” set the specific visualisation screen which is displayed on start up.

Example:

```
[CmpVisuHandlerRemote]
Communication.TcpAddressDest=92.168.111.222
Communication.TcpAddressDestPort=-1
;Communication.AddressDest=
;Communication.PlcNameDest=N01H0001
VisuClient.VisuAppName=Application
VisuClient.StartVisu=Visualization
;VisuClient.BestFit=1
;Credentials.UserName=
;Credentials.Password=
;VisuClient.AntiAliasing=
[SysFile]
FilePath.1=Flash\RemoteVisu
[CmpBitmapPool]
;BitMapPath=
```



Note: the configuration file is saved in the exact same location of the USB memory stick as below.

“\RemoteVisu\CodesysControl.cfg”

1. Make sure that the HMI panel is running the RemoteVisu application.
2. Plug the USB memory stick back into the HMI panel. The import/export process of the configuration file is started automatically.
3. This utility executes the following:
 - a) Backs up the current configuration file found on the HMI onto the memory stick.
 - b) Copies the new configuration file from memory stick to the of the HMI.

This message is displayed:

```
A new RemoteVisu config file has been detected...
- Backing-up current config file to
  \\USBMemory\RemoteVisu\CodesysControl.cfg.bak
- Importing the new RemoteVisu configuration file...
- Copy completed.
- Please unplug the USB stick and restart the HMI panel to start RemoteVisu with
  the new config file.
Press any key to continue
```

4. Once the import is complete, close the window and safely unplug the memory stick.
5. Close the RemoteVisu application, using the ‘Commands’ → ‘Shutdown’ menu or power cycle the panel. The application will then restart with the new configuration file.
6. If the settings are correct then RemoteVisu should find the E+PLC400 in the network and display the correct visualisation.

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