Contents for How to Use the Simulator Program

This manual describes the various items you see in the simulation program. To choose a Help Topic, click on the underlined topic to view the text.

 Toolbar

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 Toolbar

Exit button
Exit simulator program

Power Switch button
Simulates the switching on/off of the power supply to the SPAU 130 C relay

Factory Settings button
Change all settings to the defaults set when the relay is shipped from the factory.
**WARNING:** Selecting this option results in the lost of all current settings.

Factory settings button
Disabled when power supply is OFF

Simulate current or voltage injection
This window allows the simulation of current or voltage injection into the relay. Select the required module for which the current or voltage is to be injected. 
*Inject preset current* command button
Simulates the one time (static) injection of the input current into selected input of the relay.

Simulate Current Injection
Disabled when power supply is off or when display is not in main menu

Forced Activation
Enable the force activation mode. This will place the user at Register 0.

Forced Activation
Disabled when power supply is off or during initial test routine.

Change Simulator Colour
This option allows the user to change the colour of the various relay items like the LED, Dip switches, etc..

Change Simulator Speed
The scrolling speed of the LEDs can be controlled using this option
Copy button

Copy selected area to the clipboard. Upon selecting this option, the cursor is restricted to the SPAU 130 C relay area.

To select the required area

• Press and hold left mouse button at top left hand corner of required area.
• Move mouse to bottom right hand corner of required area. (a rectangle box is display to show the selected area)
• Release the mouse button.

Note: Click once anywhere to cancel the copy command

View Clipboard

This button will launch the clipboard viewer. It allows the user to view the items copied to the clipboard.

Print Simulator Window

This function sends the current screen image to the printer attached.

SPAJ 130 C manual button

Help on Simulator

Displays the help manual on how to use this simulation program

Getting Started Tutorial

A step by step guide on how to use the program

About

Display program information, version number and copyright information.
Menu Commands - File

View Clipboard - Display the contents of the clipboard

Copy to Clipboard - Copy selected area to the clipboard. Upon selecting this option, the cursor is restricted to the SPAU 130 C relay area. To select the required area:
  • Press and hold left mouse button at top left hand corner of required area.
  • Move mouse to bottom right hand corner of required area. (a rectangle box is display to show the selected area)
  • Release the mouse button.
Note: Click once anywhere to cancel the copy command

Print SPAU 130 C window - Print the contents of the SPAU 130 C window

Print Setup - Change the printer configuration

Exit - Stop running the simulator program
Menu Commands - Options

Clear All Registers - Resets all readings in registers (1 to 9) to zero

Simulate current or voltage injection - This window allows the simulation of current or voltage injection into the relay. Select the required module for which the current or voltage is to be injected. Inject preset current command button - Simulates the one time (static) injection of the input current into selected inout of the relay.

Forced Output Activation - Places the simulator in the Forced Output Activation position (i.e. "forced" trip mode). Note: In the relay, this position is reached by running through the relay positions to position zero (with the reset button) and then pressing the program button down for more than 5 seconds

Turn on/off power switch - Simulates the switching on/off of the power supply to the SPAU 130 C Relay
**Menu Commands - Preferences**

**Show/Remove Toolbar** - Displays/removes the toolbar on the screen depending on whether it is currently removed/shown respectively.

**Change LED colours** - Change the colours of the background and LED's to suit individual screens and preferences. Click on the appropriate box to change the corresponding colour. Click on the "Apply changes to Simulator" button to confirm the changes made. Click on the "Apply default colours" button to set all colours to permanently set defaults. Click on the "Cancel all color changes" button to cancel all changes made.

**Change simulator speed** - Change the speed at which the simulator works. This allows for adaptations to individual hardware configurations. When this option is selected, the following window is shown. Use the left mouse button to click on the left (or right) arrow to increase (or decrease) the simulation speed. Alternatively, click (and hold) the flashing box on the slide and drag it to the required position. Click OK to confirm the changes made or click CANCEL to ignore any changes.

**Change to factory settings** - Change all settings to the defaults set when the relay is shipped from the factory. **WARNING**: Selecting this option results in the lost of all current settings.

**Change to Customized Settings** - All settings are automatically saves to file when:
1. Power is turned off
2. Program exits
These (current) settings are also automatically loaded when the program is restarted.

Another (separate) set of settings can be saved by using the SAVE AS CUSTOMISED SETTINGS option. This allows the user to keep a set of preferred initialization settings, which can be reload at any time using the CHANGE TO CUSTOMISED SETTINGS option. Selecting this option results in the lost of all current settings.

**Save as Customized Settings** - All settings are automatically saves to file when:
1. Power is turned off
2. Program exits
These (current) settings are also automatically loaded when the program is restarted.

Another (separate) set of settings can be saved by using the SAVE AS CUSTOMISED SETTINGS option. This allows the user to keep a set of preferred initialization settings, which can be reload at any time using the CHANGE TO CUSTOMISED SETTINGS option. Selecting this option results in the lost of all current settings.
### Menu Commands - Help

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Potentiometer

The potentiometer dial can be turned to increase or decrease the input value. In this simulator program, you can use the Left and Right mouse buttons to turn the potentiometer dial. You can also use the LEFT and RIGHT arrow keys to perform the same action.

To turn the dial, you will move the mouse over the potentiometer and when you see a screwdriver, you can press on either the Left or Right mouse buttons to decrease or increase the dial value.

To allow users to move the potentiometer dial positions easily, this simulation program allows you to press the mouse pointer on any of the three-potentiometer values on the relay. For example pressing on 0.5, 1.5 or 2.5 on the relay will turn the potentiometer dial to that particular position.