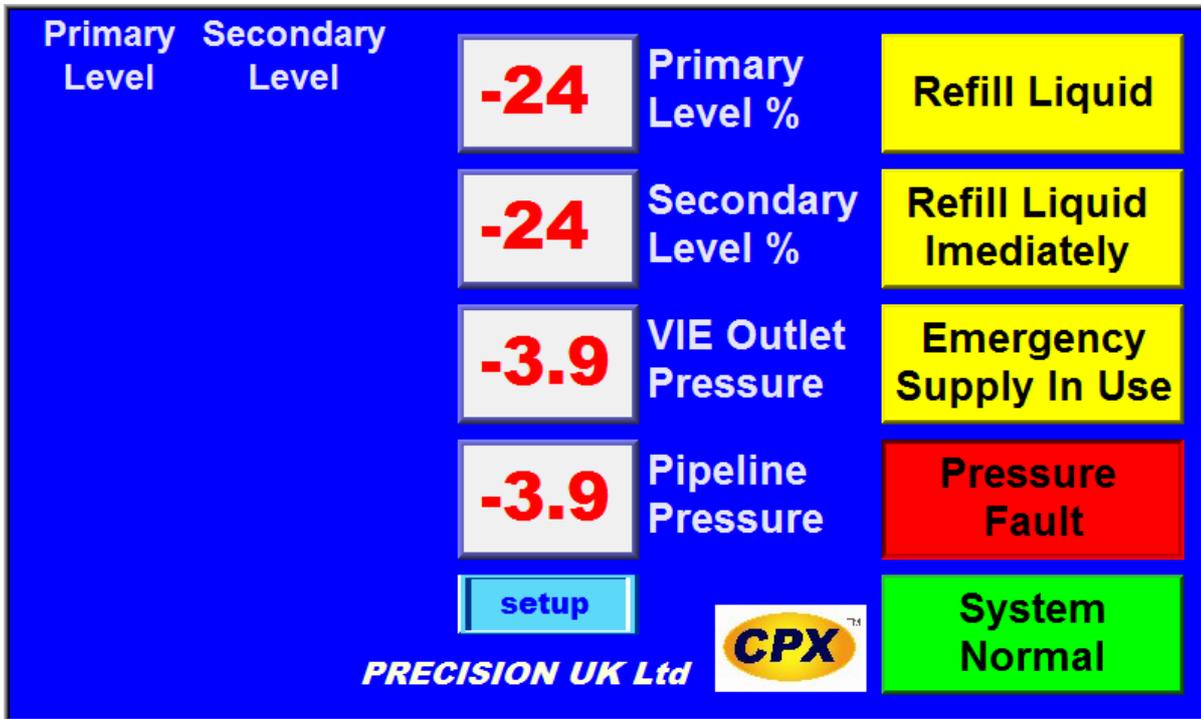# VIE Display and Alarm Operating Instructions

The Display and Alarm panel operates through a touch screen, there are three pages:-

1. The main display page

To the left there are the two bar graphs showing the contents of the primary and secondary V.I.E. Down the centre are the numerical displays of the liquid levels in the primary and secondary V.I.E. the outlet pressure form the V.I.E. and the pipeline pressure.

To the right are the alarm relay status displays, shown in alarm condition from the top we have "Refill liquid" in yellow will read "primary normal" and be in green when above primary operational empty set point on settings page.

"Refill liquid immediately" in yellow will read "primary reserve normal" and be in green when above the primary reserve empty set point on the settings page.

"Emergency Supply in use" in yellow will read "Secondary Normal" and be in green when above the secondary empty set point on the settings page.

"Pressure Fault" in red will read "Pressure normal" in green when the pressure is within the high and low pipeline pressure set points on the settings page.

"system normal" in green will read "System fault" if there is a wiring fault to any of the four transducers connected to the panel.

At the bottom of the screen is the blue "setup button" press this to enter the settings page

2. The Settings Page

At the bottom left are three buttons, the blue "back" button takes you to the main display page, the green "login" button takes you to the login page (you will need to login before any alterations can be made to the settings page, instructions on how to login are in section 3 later in these instructions) and the grey "logout" button to prevent unauthorised change of the settings.

At the top left we have "pipeline low" to alter the setting push the square button with the number in and a keypad will appear type in the require set-point and press enter, this will update the set-point. When the pipeline pressure falls below this set-point the pressure fault alarm relay will de-energise and the green "pressure normal" indicator on the main display page will turn red and read "pressure fault".

Below the "pipeline low" we have "pipeline high" when the pipeline pressure rises above this set-point the pressure fault alarm relay will de-energise and the green "pressure normal" indicator on the main display page will turn red and read "pressure fault".

Below the "pipeline high" we have "VIE Pressure low" when the when the outlet pressure from the evaporator falls below this set-point the "primary normal", "primary reserve normal" and the "secondary normal" alarm relays will all de-energise and the corresponding green indicators on the main display page will turn yellow reading "refill liquid", "refill liquid immediately" and "emergency supply in use" respectively.

At the top on the left we have "primary VIE operational empty" when the liquid level falls below the percentage level the "primary normal" alarm relay will de-energise and the indicator on the main display page will turn from green to yellow and read "refill liquid"

Below the "primary VIE operational empty" we have "primary reserve Empty" when the liquid level falls below the percentage level the "primary reserve normal" alarm relay will de-energise and the indicator on the main display page will turn from green to yellow and read "refill liquid immediately"

Below "primary reserve empty" we have "primary contents reset" the liquid level must rise above this percentage level before both the "refill liquid" and "refill liquid immediately" alarm relays will

energise and the corresponding indicators on the main display page will return to green normal status.(it is recommended that this be set at least 5% higher than the "primary operational empty" set-point)

Below "primary contents reset" we have "Secondary VIE Empty" when the liquid level falls below the percentage level the "Secondary normal" alarm relay will de-energise and the indicator on the main display page will turn from green to yellow and read "Emergency supply in use"

At the bottom on the right we have "secondary contents reset" the liquid level must rise above this percentage level before the "Emergency supply in use" alarm relay will energise and the corresponding indicator on the main display page will return to green normal status.(it is recommended that this be set at least 5% higher than the "Secondary VIE empty" set-point).

3. Login page
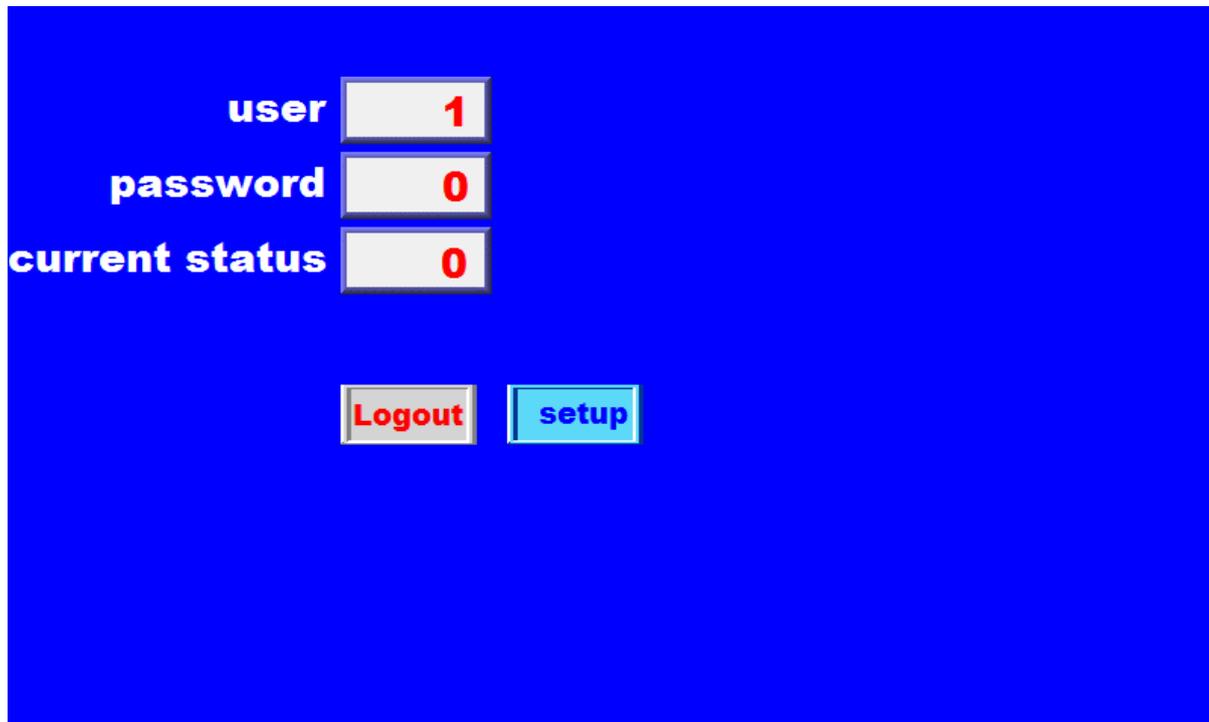
At the top we have "user" to login in if this is not already at 1 press the box and enter 1

Below this we have "password" to login enter the password (555) and press enter

The box "labelled current status" should show a "1" when logged in and a "2" when logged out

The grey "logout" button when pressed will logout the user so no alterations can be made

The blue "setup" button will return you to the setup page.