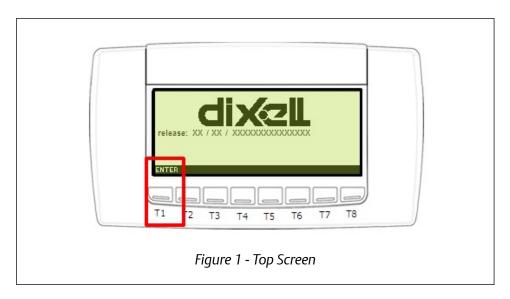
iPro Rack User Interface

Navigation Guide

The iPro Rack is a unit controller designed to manage compressors, fans, and control valves used in refrigeration systems. The Visograph user interface allows for navigation and acquisition of system information. This guide provides an overview of the information provided by the Visograph user interface.

STEP 1: Enter The Top Screen

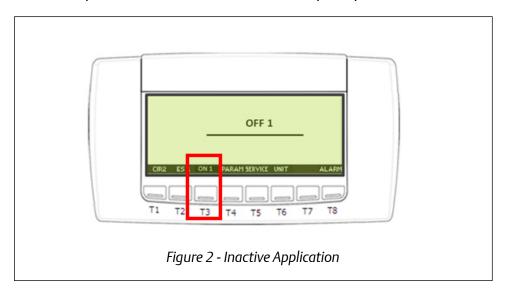
To enter the main screen to access system status and navigation, press **T1** under the **ENTER** prompt.





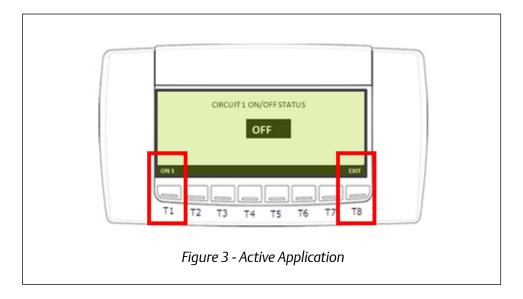
STEP 2: Activate The Application

If the application is inactive, press and hold T3 under the ON 1 prompt for five seconds.



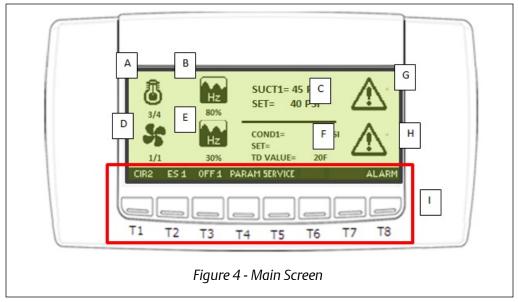
Press and hold **T1** under the **ON 1** prompt until the status changes from **OFF** to **ON**, then press **EXIT**. The unit will now be activated. To deactivate the unit, follow the same procedure for activation.

Note: The prompts that originally read ON will now read OFF when the status changes from activated to deactivated.



STEP 3: Enter The Main Screen

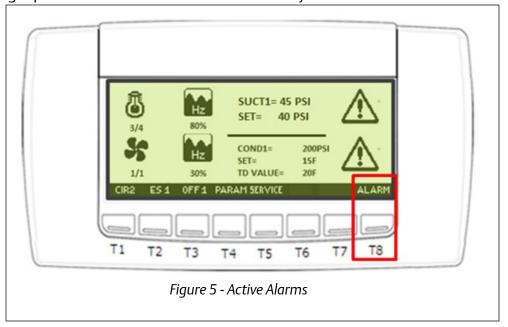
The main screen is designed to provide an overview of the main system status and allow for navigation to peripheral device status and application configuration.



- A. Number of compressors turned on/Number of compressors available
- B. Digital unloader active capacity
- C. Suction pressure; Suction setpoint
- D. Number of fans running/Number of fans available
- E. Variable speed fan capacity
- F. Temperature differential; Temperature differential setpoint
- G. Compressor alarms active
- H. Fan alarms active
- I. Navigation buttons

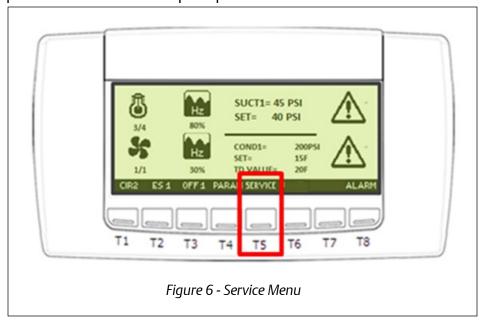
STEP 4: View Active Alarms

To view active alarms, press **T8** under the **ALARM** prompt. Alarms are grouped according to type, and each group in active alarm state will be flashing in the **ALARM** menu. Alarms will clear once conditions for alarms are no longer present. Other alarms must be manually cleared.

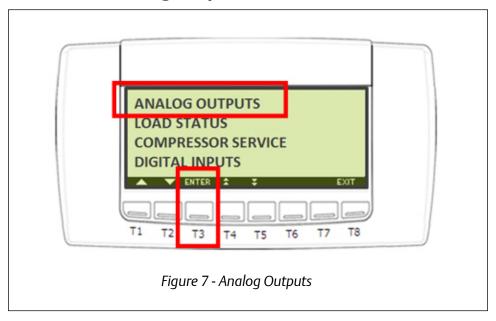


STEP 5: Enter The Service Menu

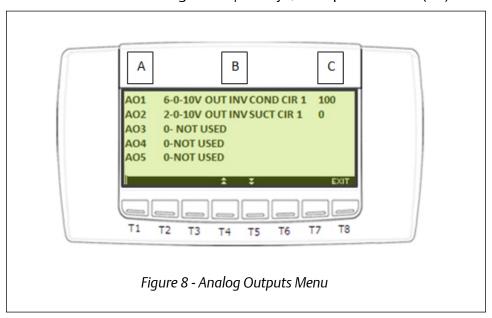
The service menu allows the user to view the I/O status and peripheral system status, and create overrides for outputs. To enter the service menu, press **T5** under the **Service** prompt. The list below defines what is available in the service menu. To enter any service submenu, scroll over the desired menu with arrow keys **T1/T2/T4/T5** and press **T3** under the **Enter** prompt.



Analog Outputs: Status Of Analog Outputs

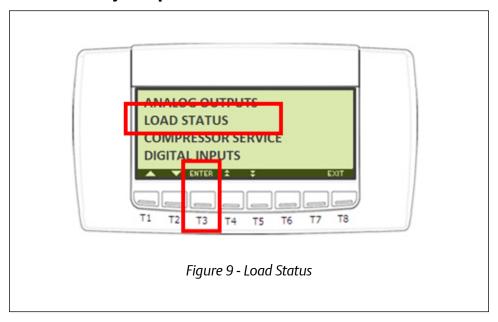


Scroll to the **ANALOG OUTPUTS** menu using the **T1/T2** keys, then press **ENTER (T3)**.

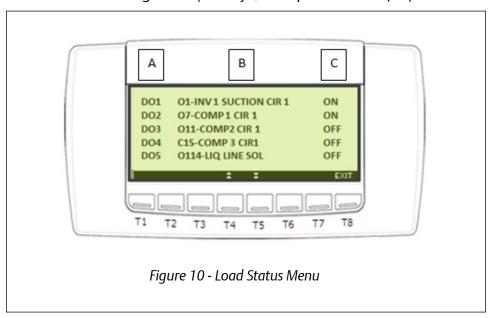


- Column A Analog output designation
- Column B Configuration of analog output
- Column C Value of analog output (0-100%)

Load Status: Status Of Relay Outputs

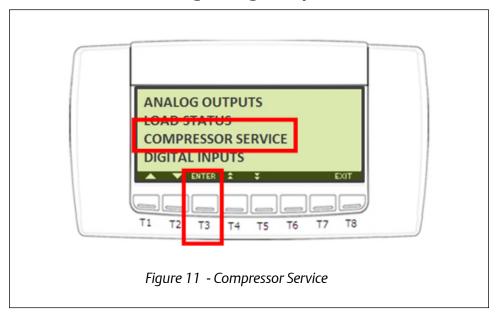


Scroll to the LOAD STATUS menu using the T1/T2 keys, then press ENTER (T3).

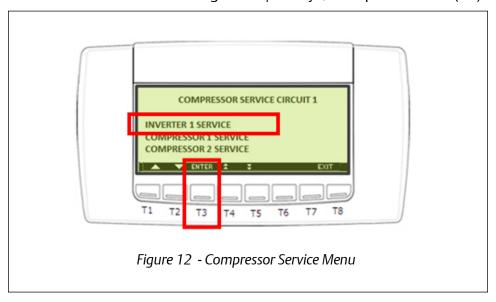


- Column A Digital output designation
- Column B Configuration of digital output
- Column C Value of digital output (ON/OFF)

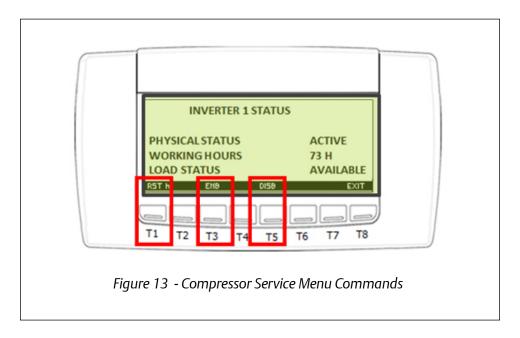
Compressor Service: Information Regarding Compressor Run Time And Output Status



Scroll to the **COMPRESSOR SERVICE** menu using the **T1/T2** keys, then press **ENTER** (**T3**).



Compressor Service information is listed for each configured compressor.

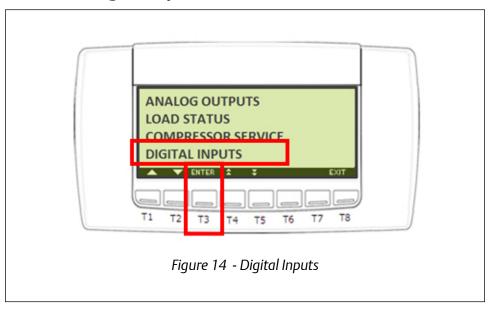


Available commands in the COMPRESSOR SERVICE menu are:

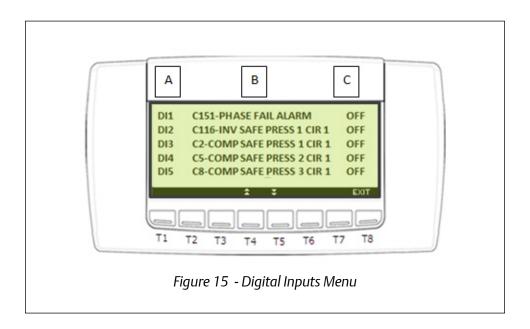
- Reset Hour Counter (T1)
- Enable Compressor (T2)
- Disable Compressor (T3)

Press and hold the corresponding button for the desired command.

Digital Inputs: Status Of Digital Inputs

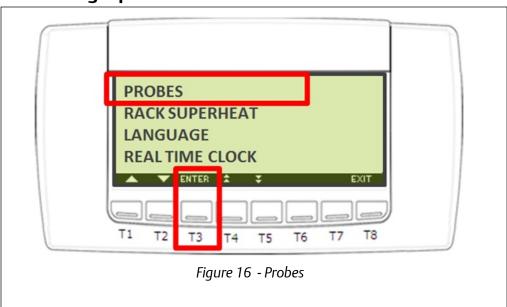


Scroll to the **DIGITAL INPUTS** menu using the **T1/T2** keys, then press **ENTER** (**T3**).

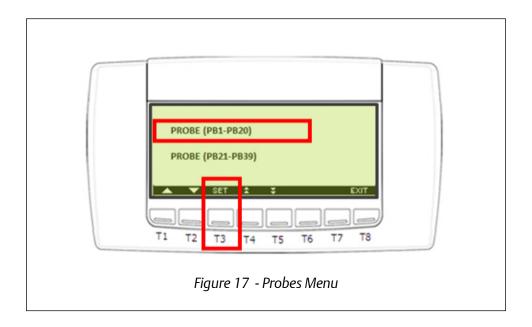


- Column A Digital input designation
- Column B Configuration of digital input
- Column C Value of digital input (ON/OFF)

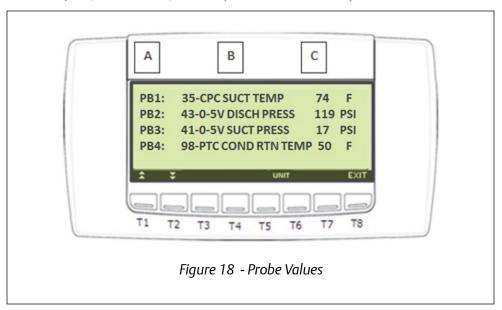
Probes: Status Of Analog Inputs



Scroll to the **PROBES** menu using the **T1/T2** keys, then press **ENTER** (**T3**).

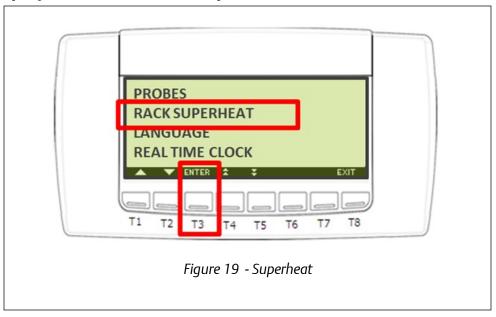


Probe values are divided by two groups. Group 1 (PB1-PB20) shows probe values for inputs landed on the iPro Rack controller. Group 2 (PB21-PB39) shows probe values for inputs landed on XEV30 valve drivers.

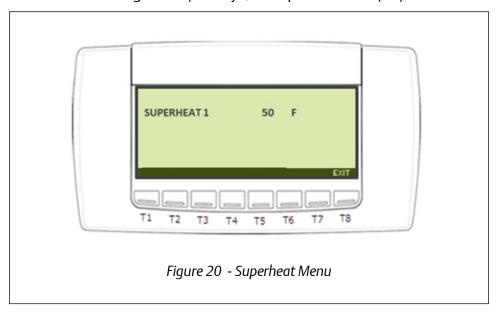


- Column A Analog input designation
- Column B Configuration of analog input
- Column C Value of analog input (0-100%)

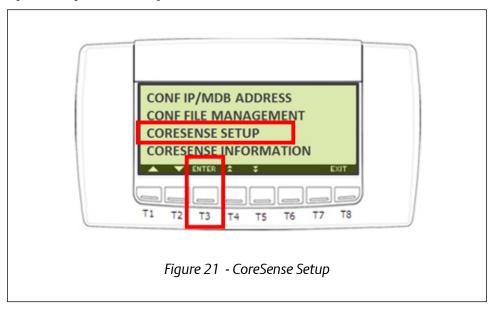
Superheat: Displays Calculated Rack Superheat



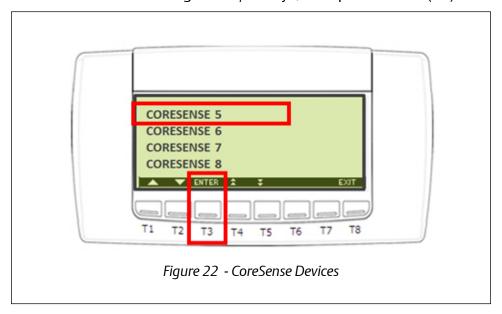
Scroll to the ${\bf SUPERHEAT}$ menu using the ${\bf T1/T2}$ keys, then press ${\bf ENTER}$ (${\bf T3}$).



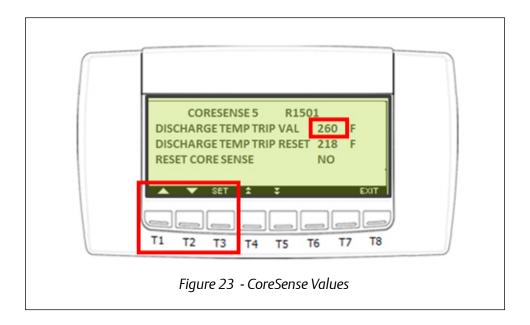
Coresense Setup: Setup Of Safety Parameters Inherent To CoreSense Modules



Scroll to the **CORESENSE SETUP** menu using the **T1/T2** keys, then press **ENTER** (**T3**).

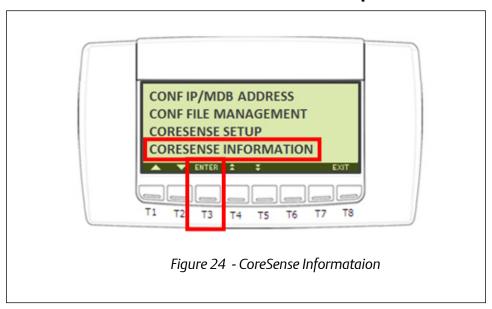


The setup of CORESENSE is grouped by device address. Scroll to the desired device by using the **T1/T2** keys, then press **ENTER** (**T3**).

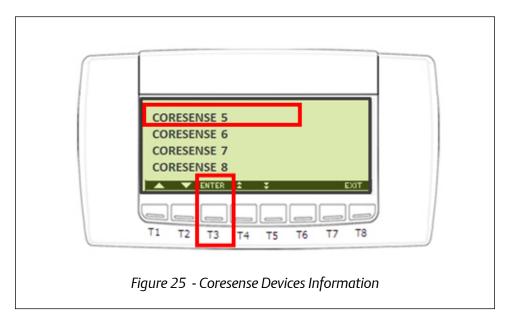


To change values, scroll to the desired value using the **T1/T2** arrow keys, then press **SET** (**T3**). The value will flash when it is ready to be edited. Use the arrow keys **T1/T2** to change the value, then press **SET** (**T3**) to save changes.

CoreSense Information: View The Status Of CoreSense Inputs



Scroll to the **CORESENSE INFORMATION** menu using the **T1/T2** keys, then press **ENTER** (**T3**).

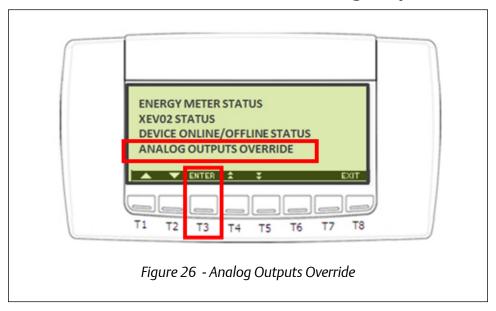


Information related to CoreSense is grouped by device address. Scroll to the desired device by using the **T1/T2** keys, then press **ENTER (T3)**.

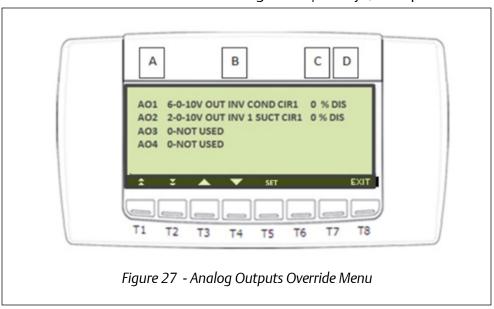
CORESENSE INFORMATION displays the following input values:

- Compressor Current
- Locked Rotor Peak Current
- Discharge Temperature
- Number of Running Hours
- Number of Compressor Switching Cycles
- Total Number of Short Cycles
- Alarm Status

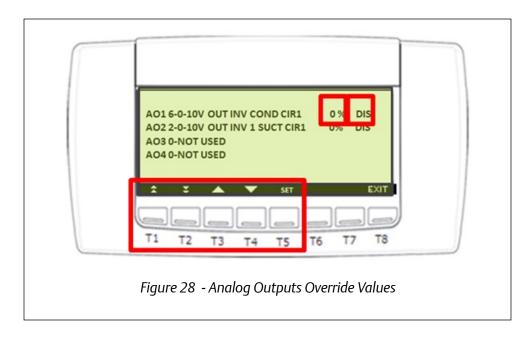
Analog Outputs Override: Allows For Override Of Analog Outputs



Scroll to the ANALOG OUTPUTS OVERRIDE menu using the T1/T2 keys, then press ENTER (T3).

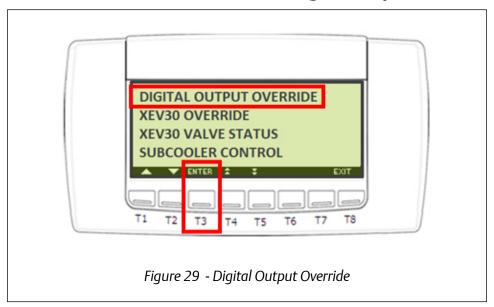


- Column A Analog output designation
- Column B Configuration of analog output
- Column C Override value of analog output (0-100%)
- Column D Override status (disabled/enabled)

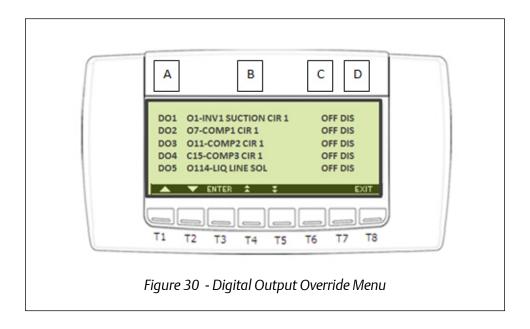


To override a value, scroll to the desired value using the **T1-T4** arrow keys, then press **SET** (**T5**). The value will flash when it is ready to be edited. Use the keys **T3/T4** arrow keys to change the value, then press **SET** (**T5**) to save changes.

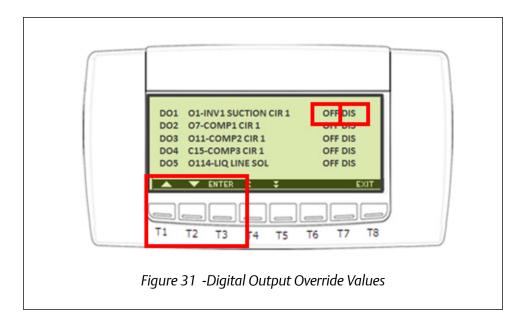
Digital Output Override: Allows For Override Of Digital Outputs



Scroll to the **DIGITAL OUTPUT OVERRIDE** menu using the **T1/T2** keys, then press **ENTER (T3)**.

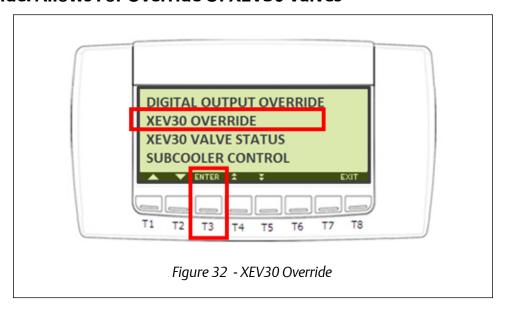


- Column A Digital output designation
- Column B Configuration of digital output
- Column C Override value of digital output (ON/OFF)
- Column D Override status (disabled/enabled)

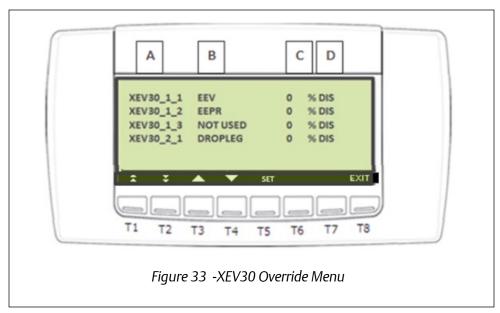


To override a value, scroll to the desired value using the T1/T2 arrow keys, then press SET (T3). The value will flash when it is ready to be edited. Use the T1/T2 arrow keys to change the value, then press SET (T3) to save changes. Scroll to the override status using the T1/T2 keys, then press SET (T3). The value will flash when it is ready to be edited. Use the arrow keys T1/T2 to change the value from disable to enable, then press SET (T3) to save changes.

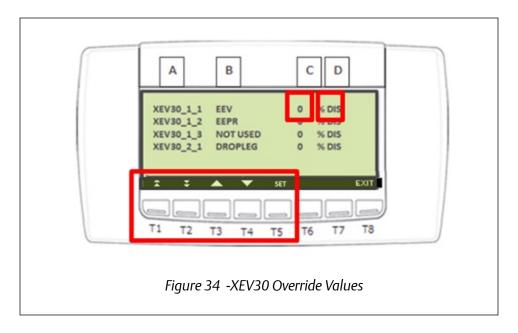
XEV30 Override: Allows For Override Of XEV30 Valves



Scroll to the XEV30 OVERRIDE menu using the T1-T4 keys, then press ENTER (T5).

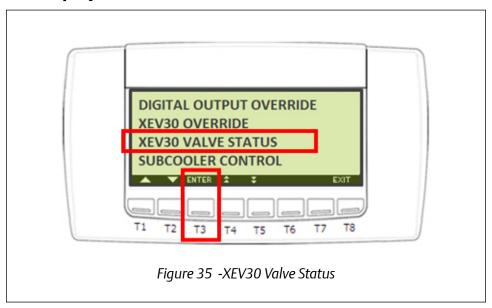


- Column A XEV valve output location
- Column B Valve assignment
- Column C Valve override value (0-100%)
- Column D Override status (disabled/enabled)

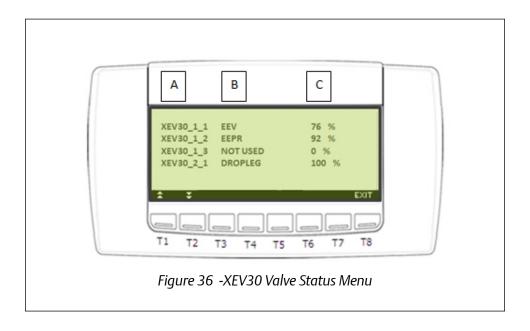


To override a value, scroll to the desired value using the **T1-T4** arrow keys, then press **SET** (**T5**). The value will flash when it is ready to be edited. Use the arrow keys T1/T2 to change the value, then press **SET** (**T3**) to save changes. Scroll to the override status using the **T3/T4** keys, then press **SET** (**T5**). The value will flash when it is ready to be edited. Use the arrow keys **T3/T4** to change the value from disable to enable, then press **SET** (**T5**) to save changes.

XEV Valve Status: Displays Status For XEV30 Valves

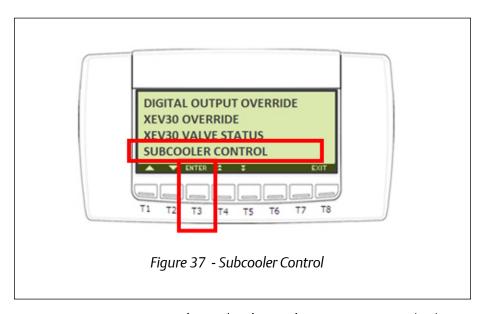


Scroll to the **XEV30 VALVE STATUS** menu using the **T1/T2** keys, then press **ENTER** (**T3**).

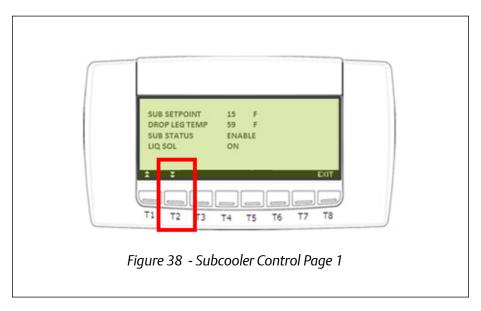


- Column A XEV valve output location
- Column B Valve assignment
- Column C Valve status (0-100%)

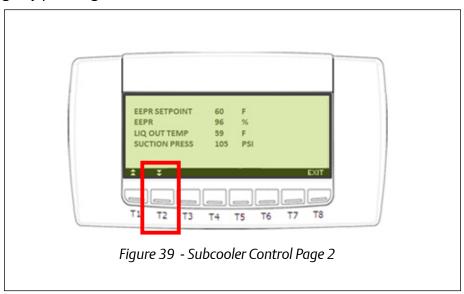
Subcooler Control: Allows For Viewing Status of Subcooler Operation and Input Values



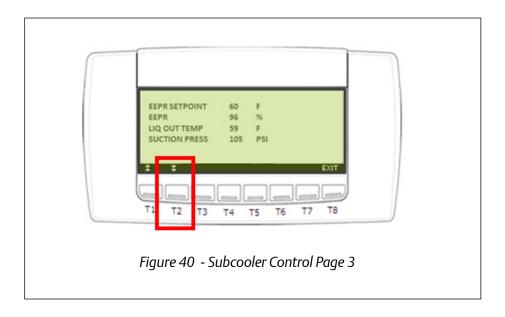
Scroll to **SUBCOOLER CONTROL** menu using the **T1/T2** keys, then press **ENTER (T3)**.



Scroll to the next page by pressing **T2**.



Scroll to the next page by pressing **T2**.



Document Part # 026-4962 Rev 0 17-FEB-2016

Page 22 of 22

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