Dynatronix BY PROCESS TO INCO TO

DTX UI Definition

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Version 4.0

Version History on last page

Note: This document includes all feature options that can be included in a DTX power supply. Some menus and parameters may not be visible for your particular power supply setup.



Splash Screen

Shown on power up

Screen:

Buttons:

All inactive

Alarm Indicator

On ALL screens there is an Alarm indicator in the upper right hand corner that flashes every 500ms anytime there is an active alarm. When there is not an active alarm condition, the alarm indicator is not shown. See Examples:

DC Mode 000.00 Target: 12.00 Lc	- Alarm - 60.0 sec cal	Dynatronix
Target: 5 <u>0</u> .00 Lo	ocal System Alarms	
		RUN STOP





HOME Screen in Standby

Screen:

Red outline around outside to signal Standby, Readings at zero during standby, target current, target voltage and ATC/RTC target are editable.

When in Recipe Mode, the top line will say "Recipe:" and have the selected recipe name

Buttons:

Up and Down Arrow buttons adjust the target values, when control mode = Local, (current, voltage or RTC/ATC) Left and Right Arrows move between digits within the current or voltage or RTC/ATC target values, when control mode = Local, Enter—switches (underline) input location between parameters—Current Target, Voltage Target, RTC/ATC Target, when control mode = Local

Run—Initiates output, switches to Home Screen in Operate Stop—does nothing here Setup—Goes to Setup menu Totalizer—Goes to the Totalizer menu System—Goes to System menu Alarms—Goes to Alarms screen



HOME Screen in OPERATE

Screen:

Green outline around outside to signal Operate

Readings are continually updated but not editable. Readings are a font type where each character takes the same number of pixels (ex: Courier New), so the decimal place doesn't move as the value or number of digits changes. Target current and target voltage are editable, when control mode = Local. RTC/ATC target is not editable while in operate.

Timer (RTC/ATC control) progress bar fills from the bottom up as time passes.

Buttons:

Up and Down Arrow buttons adjust the target values (Current , Voltage), when control mode = Local Left and Right Arrows move between digits within the current or voltage target values, when control mode = Local Enter—switches (underline) input location between parameters—Current Target, Voltage Target, when control mode = Local

Run—does nothing here Stop—Initiates standby, switches to Home Screen in Standby

Setup—Goes to Setup menu when in DC Mode. When running a Recipe, the Setup key is disabled. Totalizer—Goes to the Totalizer menu System—Goes to System menu Alarms—Goes to Alarms screen



Home-Setup Screen in Standby

Screen:

Red outline around outside to signal Standby

Target current, target voltage, timer type ("Real Time", "Amp Time", "Manual"), timer target and the timer units are all editable, when control mode = Local.

If the Timer Type = Manual, the Timer Value and Timer Units are not shown since they are not applicable.

Timer type Real Time has units of: "ms", "sec", "min", "hr", "day"

Timer type Amp Time has units of: "amp sec", "amp min", "amp hr"

Buttons:

Up and Down Arrow buttons adjust the underlined value, when control mode = Local.

Left and Right Arrows move between digits within the current, voltage, or timer target values. When on the timer type or timer unit parameters the left and right arrows do nothing, when control mode = Local.

Enter—switches (underline) input location between parameters—Current Target, Voltage Target, Timer Type, Timer Target, Timer Units, when control mode = Local.

Run—Initiates Operate, switches to Home Screen in Operate Stop—does nothing here

Recipes—Goes to the Recipe List screen (When Recipe feature is enabled) Exit—Returns to the Home Screen in Standby



Home-Setup Screen in OPERATE

Screen:

Green outline around outside to signal Operate

Target current and target voltage are editable, and changes immediately are applied to the power supply output, when control mode = Local. Target type and Timer are not editable in operate.

Buttons:

Up and Down Arrow buttons adjust the target values (Current or Voltage), when control mode = Local. Left and Right Arrows move between digits within the current or voltage values, when control mode = Local. Enter—switches (underline) input location between parameters—Current Target, Voltage Target, when control mode = Local.

Run—does nothing here Stop—Initiates standby, switches to Home Screen in Standby

Recipes—Goes to the Recipe List screen (When Recipe feature is enabled) Exit—Returns to the Home Screen in Operate



Recipe List Screen in Standby

Screen:

Red outline around outside to signal Standby. Only accessible in Standby.

Buttons:

Up and Down Arrow buttons scroll through the stored recipe list Left and Right Arrows buttons do nothing Enter does nothing

Run-do nothing

Stop-do nothing

Select-Returns to the home screen and queues the selected recipe to run

Edit—Moves to the Recipe Edit screen to Edit the selected Recipe

More... -Switches to the second soft key menu

DC Mode—Changes to the DC Mode Setup screen, and puts the user into DC control instead of Recipe control.

CopyToNew–Copies the highlighted recipe to a new recipe location. Goes to the Edit screen for the newly copied menu.

Delete- When pressed, a pop up message is shown, asking the user if they are sure they want to delete "Recipe 01 Pulse", options are to delete, or return without deleting. Back...-Switches to the first soft key menu

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Exit—Returns to the Home Screen in Standby, without changing selected recipe





Edit Recipe Screen in Standby

Screen:

Red outline around outside to signal Standby. Only accessible in Standby.

Recipe Duration Mode options are RTC, ATC, Step, Manual

Recipe Timer is only active for Recipe Duration Modes = ATC or RTC.

Recipe Timer units for Recipe Duration Mode = ATC are amp/hr, amp/min, amp/sec

Recipe Timer units for Recipe Duration Mode = RTC are days, hr (hours), min (minutes), sec (seconds), ms (milliseconds) Minimum value is 4ms.

Recipe Name is an editable 20 character string. Up and down arrow key presses change the underlined letter. Left and right arrow key presses move which character is underlined. Alphabet (all capitals), Numeric (0-9), and a space are allowed characters.

Buttons:

Up and Down Arrow buttons adjust the underlined value.

Left and Right Arrows buttons move between the digits in the Recipe Timer, otherwise they do nothing.

Enter- moves to the next editable value

Run—does nothing here Stop—does nothing here

Save—Returns to the Recipes in Standby after saving the values Steps—Saves any changes and goes to the Steps page for the Recipe that is being Ediged.



Edit Recipe-Step Screen in Standby

Screen:

Red outline around outside to signal Standby. Only accessible in Standby. The "Step: 1/6" means the user is looking at step one of the recipe, and there are currently 6 steps in the recipe. The Step number changes as the user moves between the steps within the recipe.

Step Duration Mode options are RTC, ATC, Segments (runs each segment once)

Step Timer is only active for Recipe Duration Modes = ATC or RTC.

Step Timer units for Step Duration Mode = ATC are amp/hr, amp/min, amp/sec

Step Timer units for Step Duration Mode = RTC are days, hr (hours), min (minutes), sec (seconds), ms (milliseconds) Minimum value is 4ms.

Step Current Tolerance is a percentage value 0-99%

Step Voltage Tolerance is a percentage value 0-99%

Buttons:

Up and Down Arrow buttons adjust the underlined value

Left and Right Arrows buttons move between the digits in the Timer and tolerance values.

Enter- Moves between the editable items on the screen

Run—does nothing here, Stop—does nothing here

Previous-Moves to the previous step-gray out Previous option when on the first step

Next-Moves to the next step-gray out Next option when on last step

Segments—Displays the segments for the current step

More... -Switches to the second soft key menu

InsertNew—Inserts a new (blank) step in the recipe after the current recipe step

CopyToNew—Inserts a copy of the current recipe step after the current recipe step

Delete- When pressed, a pop up message is shown, asking the user if they are sure they want to delete "Step 1", options are to delete, or return without deleting. When the recipe only has one step it cannot be deleted.

Back...-Switches to the first soft key menu

Save—Returns to the Recipes in Standby after saving the values





Edit Recipe-Step-Segments Screen in Standby

Screen:

Red outline around outside to signal Standby. Only accessible in Standby. The "Step: 1/6" means the user is looking at step one of the recipe, and there are currently 6 steps in the recipe. The "Segment: 1/2" means the user is looking at segment one and there are two segments in the current step. The Segment number changes as the user moves between the steps within the recipe.

The segment staring and ending current and voltage values are limited by the factory configuration output limits. The segment time units can be days, hr (hours), min (minutes), sec (seconds), ms (milliseconds)

Buttons:

Up and Down Arrow buttons adjust the underlined value

Left and Right Arrows buttons move between the digits in the parameters.

Enter- Moves between the editable items on the screen

Run-does nothing here

Stop—does nothing here

Previous-Moves to the previous segment-gray out Previous option when on the first segment

Next-Moves to the next segment-gray out Next option when on last segment

InsertNew—Inserts a new segment in the recipe after the current segment. The new segment will have its start I & V values set to the end values of the previous segment.

More... -Switches to the second soft key menu

CopyToNew—Inserts a copy of the current segment after the current segment.

Delete- When pressed, a pop up message is shown, asking the user if they are sure they want to delete "Segment 1", options are to delete, or return without deleting. When the recipe only has one segment it cannot be deleted.

Back...-Switches to the first soft key menu

Save—Returns to the Steps menu, after saving the segments





Home-Totalizer Screen in Standby

Screen:

Red boarder around outside to signal Standby. No editable items on this screen

Buttons:

Up and Down Arrow buttons do nothing here Left and Right Arrows do nothing here Enter—does nothing here Run—Initiates Operate, switches to Home Screen in Operate Stop—does nothing here

Clear—Shows the User Password screen before clearing the totalizer AmpHr / AmpMin—Changes the units of the displayed totalizer Exit—Returns to the System screen



Home-Totalizer-Clear Totalizer Screen in Standby

Screen:

Red boarder around outside to signal Standby. Password value is editable.

Buttons:

Up and Down Arrow buttons adjust the password value Left and Right Arrows move between digits within password value Enter—does nothing here Run—does nothing here Stop—does nothing here

Continue—Checks the password and if it is correct the totalizer is cleared and the menu returns to the Totalizer menu Cancel—Returns to the Totalizer menu without clearing the totalizer value.



Home-Totalizer Screen in Operate

Screen:

Green boarder around outside to signal Operate. No editable items on this screen Totalizer value is continually updated since the power supply is in Operate

Buttons:

Up and Down Arrow buttons do nothing here Left and Right Arrows do nothing here Enter—does nothing here Run—does nothing here Stop—Initiates Standby, switches to Home Screen in Standby

AmpHr / AmpMin—Changes the units of the displayed totalizer Exit—Returns to the System screen (Note: Clearing the totalizer is not allowed while in Operate.)



Home-System Screen in Standby

Screen:

Red boarder around outside to signal Standby. No editable items on this screen

Buttons:

Up and Down Arrow buttons do nothing here Left and Right Arrows do nothing here Enter—does nothing here

If In Standby: Run—Initiates Operate, switches to Home Screen in Operate Stop—does nothing here

Config—Goes to Configuration menu Factory—Goes to Factory menu Exit—Returns to the Home Screen in Standby



Home-System Screen in Operate

Screen:

Green boarder around outside to signal Operate. No editable items on this screen

Buttons:

Up and Down Arrow buttons do nothing here Left and Right Arrows do nothing here Enter—does nothing here

Run—does nothing here Stop—Initiates Standby, switches to Home Screen in Standby

Exit—Returns to the Home Screen in Operate

(Note: The Config and Factory menus are only accessible from the System screen while the system is in Standby.)



Home-System-Config Screen in Standby

Screen:

Red boarder around outside to signal Standby. No editable items on this screen

Buttons:

Up and Down Arrows—does nothing here Left and Right Arrows—does nothing here Enter—does nothing here

If In Standby: Run—Initiates Operate, switches to Home Screen in Operate Stop—does nothing here

If in Operate: Run—does nothing here Stop—Initiates Standby, switches to Home Screen in Standby

User Sets—Goes to User Settings menu Control—Goes to Control menu Add-ons—Goes to Add-ons menu TowerDef—Goes to Tower Definition menu Exit—Returns to the System screen



Home-System-Config-User Sets Screen in Standby

(Note: Unit Name in Operate is the same except the colored boarder is green)

Screen:

Red boarder around outside to signal Standby. (If in Operate the boarder is green)

Buttons:

Up and Down Arrow buttons adjust the underlined value

Left and Right Arrows move between digits/characters within the values. The underline steps over the "."

Enter—switches (underline) input location between parameters—Unit Name, Power on Mode, End of cycle mode, Time, I Debounce, V Debounce, Alarm Latch, Start Delay

If In Standby: Run—Initiates Operate, switches to Home Screen in Operate Stop—does nothing here

If in Operate: Run—does nothing here Stop—Initiates Standby, switches to Home Screen in Standby

Save—Save the new Unit Name value Password—Goes to the user password menu Cancel—Returns to the System Configuration screen without saving any changes to the Unit Name value. *Note: Time value changes are applied live, so they are always saved*



Home-System-Config-User Sets-Password Screen in Standby

(Note: Customer Password is only accessible during Standby.)

Screen:

Red boarder around outside to signal Standby. Current and New customer password parameters are editable.

Buttons:

Up and Down Arrow buttons adjust the password value Left and Right Arrows move between digits within password value Enter—switches between the Current and New password parameters

Run—does nothing here Stop—does nothing here

Save—Saves the New customer password as long as the current customer password entry is correct. A pop up message will appear telling the user if the new password was saved or if the current password was incorrect. Cancel—Returns to the System Configuration screen without saving the customer password



Home-System-Config-Control Mode Selection Screen in Standby

(Note: Control Mode is only accessible during Standby.)

Screen:

Red boarder around outside to signal Standby. Control Mode value is editable

Buttons:

Up and Down Arrow buttons adjust the Control Mode between the installed options. Left and Right Arrows—does nothing here Enter—does nothing here

Run—does nothing here Stop—does nothing here

Save—Saves the Control Mode value, then: If the Control Mode = Local, the screen returns to the System screen. If the Control Mode = Ethernet/IP, the Ethernet/IP Setup screen will show. If the Control Mode = Analog, the Analog Configuration screen will show. Exit—Returns to the System screen without saving any changes to the Control Mode value.



Home-System-Config-Control-Ethernet/IP Setup Screen in Standby

(Note: Ethernet/IP Setup Screen is only accessible during Standby.)

Screen:

Red boarder around outside to signal Standby.

Buttons:

Up and Down Arrow buttons adjust the underlined value (IP Address, Subnet Mask, Default Gateway, Disconnect Action) Left and Right Arrows move between digits within the values. The underline steps over the "." Enter—switches (underline) input location between parameters—IP Address, Subnet Mask, Default Gateway, Disconnect Action

Run—does nothing here Stop—does nothing here

Save—Saves the values, returns to System Configuration Menu Exit—Returns to the Control Mode screen

Home->System->Config->Control->Analog Configuration:

Amalog Configurat	i on c	Anales
Analog Configurat	:10n:	Rating
Voltage Setting Source:	Analog	<u> </u>
Volt Ana. Set/Read Type:	4-20mA	
Current Setting Source:	Analog	
Curr. Ana. Set/Read Type:	4-20mA	
Press [Save] to save settin	ngs and Cali	brate or Use
Save		Cancel
Analog Configurat	cion:	$\frac{4-20\text{mA}}{0-10\text{V}}$
Voltage Setting Source:	Analog	0 100
Volt Ana. Set/Read Type:	<u>4-20mA</u>	
Current Setting Source:	Analog	
Curr. Ana. Set/Read Type:	4-20mA	
Press [Save] to save settin	ngs and Calil	brate or Use
Save		Cancel
Analog Configurat	:ion:	Analog
Voltage Setting Source:	Analog	Rating
Volt Ana. Set/Read Type:	4-20mA	
Current Setting Source:	Analog	
Curr. Ana. Set/Read Type:	<u> </u>	
Press [Save] to save settin	ngs and Cali	brate or Use



Home->System->Config->Control->Analog Configuration->Analog Calibration: Screen in Standby

Red outline around outside to signal Standby

Buttons

 \blacktriangle **V** Arrow buttons Adjust the underlined value.

▲ ► Arrow buttons do nothing here.

ENTER — Does nothing here.

RUN — Does nothing here.

STOP — Does nothing here.

Next...—Will say **Next** if there are more items to be adjusted or **Save** at the last item to be set and will save the settings to flash. Then it returns to the System screen.

Back... — Returns to the previous screen or calibration item. If on a settings screen it will return to the first setting on the screen and input values will have to be recalibrated by stepping through the calibration.

Help — Brings up a window showing the required connections from analog calibration and some basic procedure notes.

Cancel — Returns to the System screen without saving any calibration changes

Home->System->Config->Control->Analog Configuration->Analog Calibration: - Output/Input Cal

Menus are similar for Channel 2 and for 0-10V Calibration

Analog Calibration: Ch1 4-20mA				
	Value	In Read		
Adjust Ch1 value so output = 20.0mA:	38 <u>2</u> 5			
AutoCalibrating Ch1 Input @ 20.00mA:	3746			
Press [Next] when 20mA output is calibrated				
Next Back He	elp	Cancel		



Adjust Analog Channel 1 Output High Calibration Point:

Left and Right arrows select the digit to adjust.

Up and **Down** arrows adjust the calibration value. Adjust it until an external meter connected to the Channel 1 Analog output reads the value shown (i.e. = 20.00mA / = 10.00V).

NOTE: The calibration mode Auto-Calibrates the inputs so the output should be looped back to the input or an external calibration source should be connected to the input and set to the same value as the output is being adjusted to.

Press [Next] to go to the low calibration point adjustment:

Analog Calibration: Ch1 4-20	mA		
	Value	In Read	
Ch1 20.0mA output calibrated	38 <u>2</u> 5		
Adjust Ch1 value so output = 4.0mA:	87 <u>1</u>		
Ch1 20.0mA input calibrated	3746		
AutoCalibrating Ch1 Input @ 4.00mA:	943		
Press [Next] when 4mA output is calibrated			
Next Back He	elp	Cancel	

Adjust Analog Channel 1 Output Low Calibration Point:

Left and Right arrows select the digit to adjust.

Up and **Down** arrows adjust the calibration value. Adjust it until an external meter connected to the Channel 1 Analog output reads the value shown (i.e. = 4.00mA / = 1.00V).

Press [Next] to go to the Input calibration check.

Press [Back] to go to the previous item or screen.

Press [Help] to view a connection diagram and calibration procedure.

Press **[Cancel]** to return to the System: screen and NOT SAVE any calibration values.

Home->System->Config->Control->Analog Configuration->Analog Calibration: - Input Cal Review

Menus are similar for Channel 2 and for 0-10V Calibration

Analog Calibration: Ch1 4-20	OmA	
	Value	In Read
Ch1 20.0mA output calibrated	38 <u>2</u> 5	
Ch1 4.0mA output calibrated	87 <u>1</u>	
Ch1 20.0mA input calibrated	3746	20.00
Ch1 4.0mA input calibrated	943	
Press [Next] after viewing calibrated reading		
Next Back He	elp	Cancel

Analog Calibration: Ch1 4	-20mA				
	Value	In Read			
Ch1 20.0mA output calibrated	38 <u>2</u> 5				
Ch1 4.0mA output calibrated	87 <u>1</u>				
Ch1 20.0mA input calibrated	3746				
Ch1 4.0mA input calibrated	943	4.00			
Press [Next] for Ch2 Cal or [Save]/[Cancel] to exit					
Next Back Save	Help	Cancel			



Check Input High Calibration Point:

Left and Right arrows do nothing.

Left and Right, Up and Down arrows do nothing.

NOTE: This step is used to review the actual input calibrated reading. It should show 4.00mA/1.00V +/- a couple counts.

Press [Next] to go to Ch2 calibration screen:

Press **[Back]** to return to the Check Input High Calibration Point step. Press **[Save]** to save Ch1 calibration values.

Press **[Cancel]** to return to the System: screen and NOT SAVE any calibration values.



Home-System-Config-Add-On Code Screen in Standby

(Note: Add-On Code not accessible during operate)

Screen:

Red boarder around outside to signal Standby.

Add-on Code is editable. The Add-on code is a customized code based on the Serial Number of the unit and the add-ons purchased. An add-on code for one DTX will not work on a different DTX unit with a different serial number.

Buttons:

Up and Down Arrow buttons adjust the add-on code value Left and Right Arrows move between digits within the add-on code. Enter—does nothing here

Run—does nothing here Stop—does nothing here

Save—Verifies the code against the serial number of the unit, and if it is valid, the new add-on code is saved. Cancel—Returns to the System Configuration screen without saving any changes



Home-System-Config-Tower Definition Screen in Standby

(Note: Tower Definition not accessible during operate)

Screen:

Red boarder around outside to signal Standby.

The power module listing shows the current tower definition. Connected modules serial number and ratings are displayed. If a power module is disconnected (cannot connect via serial link), the line will show in red to identify that the module has a problem

Buttons:

Up and Down Arrow buttons —does nothing here Left and Right Arrows —does nothing here Enter—does nothing here

Run—does nothing here Stop—does nothing here

Add—Goes to the Add module screen Remove—Goes to the Remove module screen Exit—Returns to the System Configuration screen



Home-System-Config-Tower Definition-Add Screen in Standby

(Note: Tower Definition not accessible during operate)

Screen:

Red boarder around outside to signal Standby.

Buttons:

Up and Down Arrow buttons adjust the serial number value Left and Right Arrows move between digits within the serial number. Enter—does nothing here

Run—does nothing here Stop—does nothing here

Add—Attempts to add the module to the tower definition. If successful, the module will show up on the tower definition listing. Cancel—Returns to the Tower Definition screen



Home-System-Config-Tower Definition-Remove Screen in Standby

(Note: Tower Definition not accessible during operate)

Screen:

Red boarder around outside to signal Standby.

Buttons:

Up and Down Arrow buttons adjust the serial number value Left and Right Arrows move between digits within the serial number. Enter—does nothing here

Run—does nothing here Stop—does nothing here

Remove—Attempts to remove the module to the tower definition. Returns to the Tower Definition screen. Cancel—Returns to the Tower Definition screen



Home-System-Factory Configuration Password Screen in Standby

Password pop-up is shown over the System screen. (Note: Factory Configuration is only accessible during Standby.)

Screen:

Red boarder around outside to signal Standby. Password value is editable.

Buttons:

Up and Down Arrow buttons adjust the password value

Left and Right Arrows move between digits within password value

Enter—Submits the password for approval, password pop-up goes away. If the password was correct the Factory Configuration screen is shown. If the password was not correct the System screen is shown.

Run—does nothing here

Stop—Cancels the password pop-up and returns to the system screen in Standby.

Continue—The controller will verify the password and if correct will continue to the factory configuration menu. Cancel– Returns to the System menu



Home-System-Factory Configuration Screen in Standby

(Note: Factory Configuration not accessible during operate)

Screen:

Red boarder around outside to signal Standby. No editable items on this screen

Buttons:

Up and Down Arrow buttons do nothing here Left and Right Arrows do nothing here Enter—does nothing here Run—does nothing here Stop—does nothing here

Limits — Goes to Limits menu Password – Goes to Password menu Serial # – Goes to Serial Number menu Exit—Returns to the System screen



Home-System-Factory-Output Limits Screen in Standby

(Note: Output Limits not accessible during operate)

Screen:

Red boarder around outside to signal Standby. Max Voltage, Max Current and Max Power values are editable.

Buttons:

Up and Down Arrow buttons adjust the underlined value Left and Right Arrows move between digits within the max voltage, max current, and max power values Enter—switches (underline) input location between parameters—Max Voltage, Max Current, and Max Power, Voltage Source, Voltage Tolerance Checking

Run—does nothing here Stop—does nothing here

Save—Returns to the Factory Configuration screen after saving changes Cancel—Returns to the Factory Configuration screen without saving any changes



Home-System-Factory-Change Password Screen in Standby

(Note: Change Factory Password not accessible during operate)

Screen: Red boarder around outside to signal Standby. Password is editable. (Note: The current Factory Password was already entered in order to reach this screen.)

Buttons:

Up and Down Arrow buttons adjust the underlined value Left and Right Arrows move between digits within the new password Enter—does nothing here

Run—does nothing here Stop—does nothing here

Save—Returns to the Factory Configuration screen after saving changes Cancel—Returns to the Factory Configuration screen without saving any changes



Home-System-Factory-Serial Number Screen in Standby

(Note: Serial Number not accessible during operate)

Screen: Red boarder around outside to signal Standby. Serial Number is editable.

Buttons:

Up and Down Arrow buttons adjust the underlined value Left and Right Arrows move between digits within the serial number Enter—does nothing here

Run—does nothing here Stop—does nothing here

Save—Returns to the Factory Configuration screen after saving changes Cancel—Returns to the Factory Configuration screen without saving any changes



Home-Alarms Screen in Standby

(Note: Alarms Screen in Operate is the same except the colored boarder is green)

Screen:

Red boarder around outside to signal Standby. (If in Operate the boarder is green) No editable items on this screen

Buttons:

Up and Down Arrow buttons do nothing here Left and Right Arrows do nothing here Enter—does nothing here

If In Standby: Run—Initiates Operate, switches to Home Screen in Operate Stop—does nothing here

If in Operate: Run—does nothing here Stop—Initiates Standby, switches to Home Screen in Standby

Active—Goes to Active Alarms menu Archived—Goes to Archived Alarms menu Clr Active—Clears the active alarms, stays on this screen, active and archived alarm counts are updated, if an alarm condition is still active there will still be an active alarm Exit—Returns to the Home Screen



Home-Alarms-Active Alarms Screen in Standby

(Note: Active Alarms Screen in Operate is the same except the colored boarder is green)

Screen:

Red boarder around outside to signal Standby. (If in Operate the boarder is green) No editable items on this screen

Buttons:

Up and Down Arrow do nothing here Left and Right Arrows do nothing here Enter—does nothing here

If In Standby: Run—Initiates Operate, switches to Home Screen in Operate Stop—does nothing here

If in Operate: Run—does nothing here Stop—Initiates Standby, switches to Home Screen in Standby

Page Up—scrolls up a page through the active alarm list

Page Down—scrolls down a page through the active alarm list

Clear—Clears the active alarms, stays on this screen, active and archived alarm counts are updated, if an alarm condition is still active there will still be an active alarm Exit—Returns to the Alarm Screen



Home-Alarms-Archived Alarms Screen in Standby

(Note: Archived Alarms Screen in Operate is the same except the colored boarder is green)

Screen:

Red boarder around outside to signal Standby. (If in Operate the boarder is green) No editable items on this screen

Buttons:

Up and Down Arrow buttons do nothing here Left and Right Arrows do nothing here Enter—does nothing here

If In Standby: Run—Initiates Operate, switches to Home Screen in Operate Stop—does nothing here

If in Operate: Run—does nothing here Stop—Initiates Standby, switches to Home Screen in Standby

Page Up—scrolls up a page through the archived alarm list Page Down—scrolls down a page through the archived alarm list Clear—Clears the archived alarms, stays on this screen *Note once the archived alarms are cleared, they are gone* Exit—Returns to the Alarm Screen



Revision History

<u>Revision</u>	<u>Date</u>	Author—Changes
1.0	11/2016	Initial internal release
1.1	11/16/2016	ART—Minor Updates
1.2	12/13/2016	ART—Removed Factory Confriguration FPGA Baud Rate Page
1.3	01/30/2017	ART—Round corners on home scree progress bar —Added setting customer password from System screen
1.4	8/1/2017	PJB—Add user configuration and analog configuration screens.
1.5	8/24/2017	TAM—Changed Password to user on the System Standby Screen.
1.6	8/25/2017	PJB—Update Control & User screens. Add Analog Calibration screen (not finished).
1.7	10/6/2017	PJB - Changes to calibration screen.
1.8	10/18/2017	PJB - Overhaul calibration screen for ease of use. Updated Versions screen.
1.9	10/26/17	ART—Updates, merge documents
2.0	01/24/18	ART—Finish for code release
2.1	03/07/18	PJB - Update analog calibration section. Code set 231v1.3.9, 208v1.5.11, 628v1.4.
2.2	03/12/18	ART—Added Ethernet/IP menu
3.0	11/15/18	ART—Updated for Advanced Feature Set Release
4.0	02/14/2020	ART—Updated for 12kW and SCR controllers