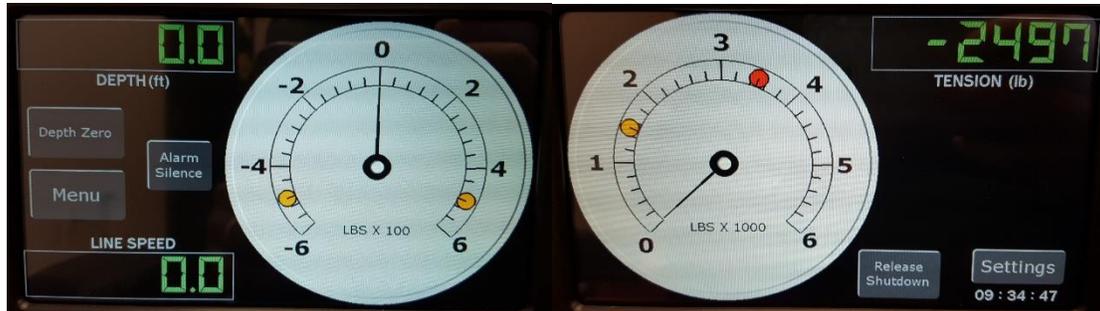


## AMD2A040 Feature Guide

This document is intended as a guide to the basic features of the AMD2A040 panels. A user manual will be posted at [www.benchmarkwireline.com/support](http://www.benchmarkwireline.com/support) once available.

### MAIN DISPLAYS



The above configuration is the default display of the AMD2A040. The display contains Depth, Tension and Linespeed, as well as current time in the lower right corner.

The left screen contains the differential tension meter which can be set in either Differential or Incremental mode. The yellow dots indicate differential tension alarm settings. The Zero Depth button will set depth to 0, but can be pressed again to see the previous depth.

The right screen contains the Total Tension meter which contains indicators for both Total Tension Alarm and Total Tension Shutdown.

### DISPLAY ALERTS



Both Displays have dynamic alerts that are displayed above. The alarms and shutdowns will enable visual cues to the operator.

The approaching surface alarm will change the depth display to Alert Yellow and flash an Approaching Surface message.

Both Tension Gauges have color changing bezels to alert the operator that an alarm has been initiated. The right screen will display an Excessive Tension message when the Total Tension alarm is initiated.

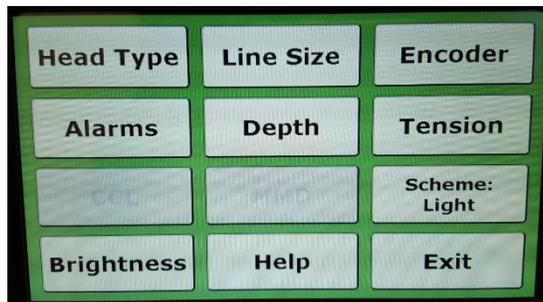


The right screen will also change both the digital display and the bezel to RED if the shutdown condition is met, as well as display a Shutdown message as shown.

**BACKUP MODE (Can be selected in the Admin Menu)**



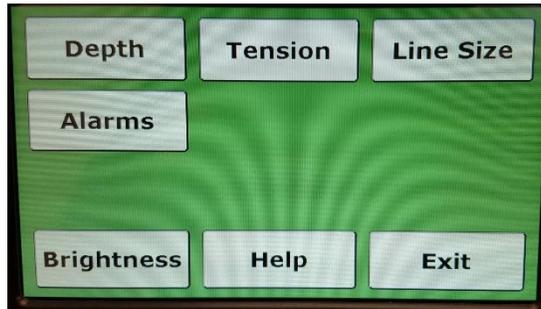
Both Displays are capable of running independently as shown. This allows the operator to continue work in the event of a cracked display or error. This mode allows the operator to see Depth, Tension, Linespeed, and Differential tension all on one screen.



It also changes the menu system to display all menus on a single screen.

## LEFT SCREEN MENUS

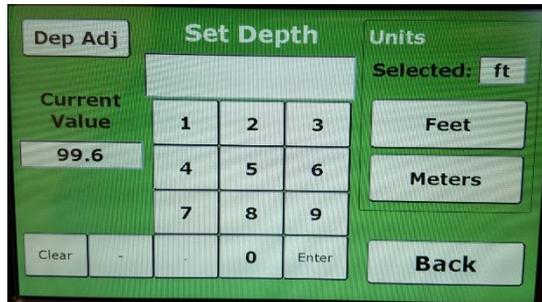
When in normal mode the Left Screen Menu is intended to include this that would be changed most often. See the following screens.



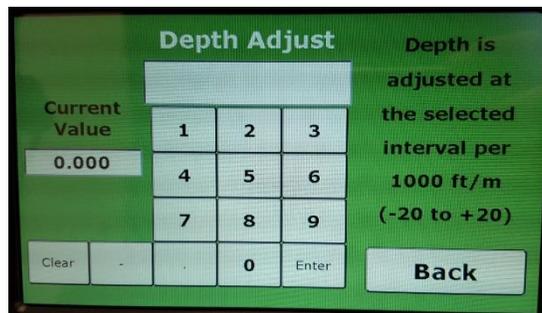
In this Menu you can select the above settings to change. Brightness will toggle the panel to a higher brightness mode for sunlight readability. The help menu is available in both the Left and Right Menus

## LEFT SCREEN SUB MENUS

### DEPTH MENU

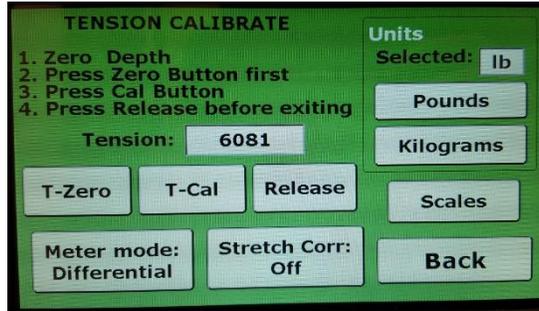


This menu is where the Operator can set the system depth.



This is a Depth shim setting that can be used to correct for wheel wear compared to a known depth. It is selected from the above Depth Menu.

## TENSION MENU



The Tension menu is where the Operator can Calibrate Tension, select the left meter setting between differential and incremental tension, set units, enable/disable stretch correction, and set the scale values for both meters.



This menu is selected via the Tension menu and is used to set the scales displayed on both Meters.

## LINE SIZE



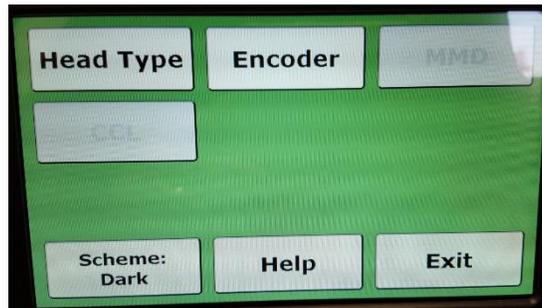
This is the standard line selection menu that is dependent on Head Type selected.

## ALARMS



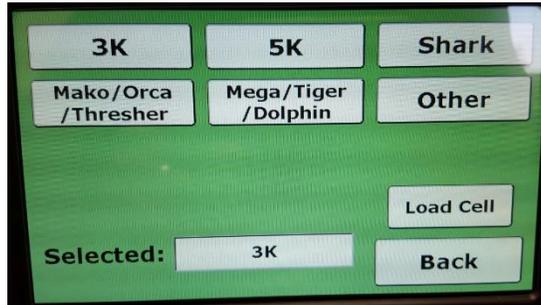
These four menus are selected by pressing the correlating menu button on the right hand side. The operator sets these values and the Dynamic Display alerts are automatically adjusted.

## RIGHT SCREEN MENUS



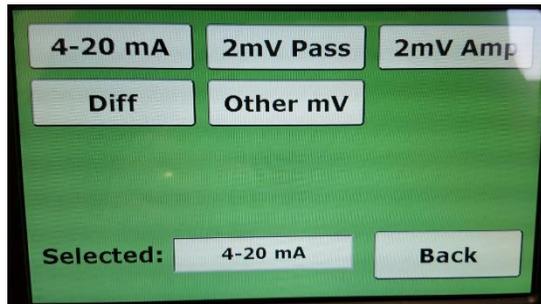
The right screen menus contain items that would usually not be adjusted very frequently. Head Type and Encoder settings are currently all that is available with more features to come.

## HEAD TYPE



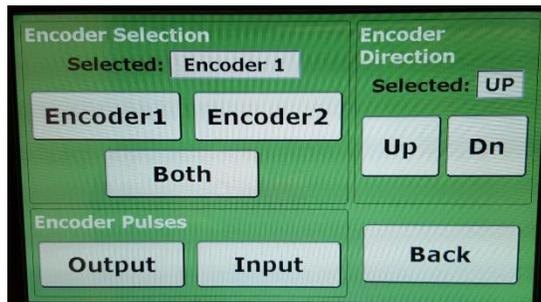
This panel is capable of both Wireline and Slickline, requiring to operator to select the measuring head the system will be reading.

## LOAD CELL



This panel also allows for many different Load Cell types and can be changed in this menu. An option to have 2 different load cells will be available in the future.

## ENCODER



This menu allows the operator to select between encoders, and select depth units, as well as set the Optical Encoder incoming and outgoing pulse rates.

## ENCODER INPUT

Current Value	Enter PPR			PRESETS
1200	1	2	3	120
Back	4	5	6	300
	7	8	9	512
	Clear	0	Enter	780
				1200

This menu is to set the Encoder Pulse rate to match the Optical Encoder on the measuring head. The operator can select from a list of common BenchMark pulse rights on the right, or enter a new value manually.

## ENCODER OUTPUT

Current Value	Enter PPF			PRESETS
120	1	2	3	120
Back	4	5	6	300
	7	8	9	512
	Clear	0	Enter	780
				1200

This menu is to select the output pulses that will be sent to a logging system such as Warrior.

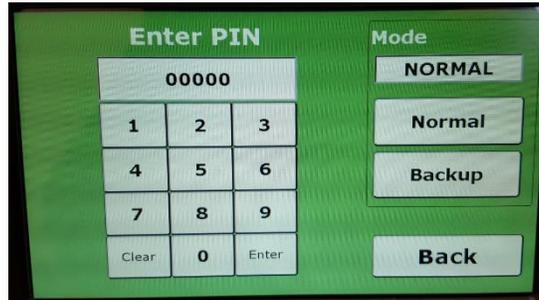
## OTHER MENUS

### HELP

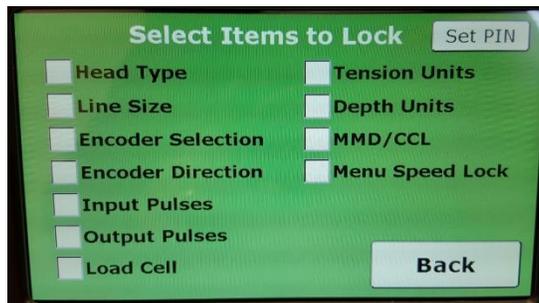
	Admin
Model #: AMD2A040 Aquisition Ver: 1.07 Touch Ver: 1.06	Summary
Contact us: www.benchmarkwireline.com 281-346-4300	Back

The help menu allows the operator to see the model number, software versions for troubleshooting, and contact information for BenchMark Wireline Products. It also contains the buttons to get to Admin controls and Summary.

## ADMIN



The Admin menu is a new feature introduced in this panel. It allows the operator to get to the Backup Mode Select, but also allows the Supervisor to have additional control over the panel which was not available in previous versions. The default PIN is 00000 and can be set to a custom value once inside the ADMIN system.



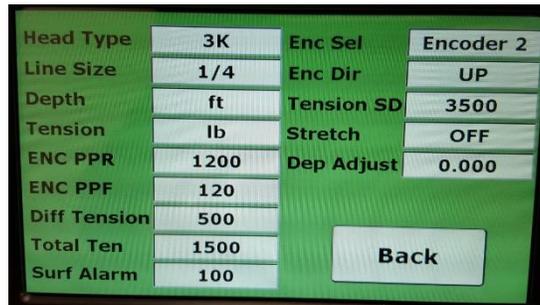
The Administrator controls are very simple, and allow the Supervisor to block the operator from changing settings in the list above. It also contains a lock called Menu Speed Lock which will not allow the panel to go into the Menu when the line is moving. It requires the operator to stop before making any adjustments.

## SET PIN



This menu allows the Supervisor to set a unique PIN between 4 and 8 digits long. The current PIN is displayed at the bottom of the screen. If the PIN is lost the Supervisor may contact BenchMark for instructions to access the system.

## SUMMARY



The image shows a screenshot of a control panel with a green background. It displays a summary of settings in a table format. The settings are as follows:

Head Type	3K	Enc Sel	Encoder 2
Line Size	1/4	Enc Dir	UP
Depth	ft	Tension SD	3500
Tension	lb	Stretch	OFF
ENC PPR	1200	Dep Adjust	0.000
ENC PPF	120		
Diff Tension	500		
Total Ten	1500		
Surf Alarm	100		

There is a "Back" button located at the bottom right of the table area.

This is a quick way to see all current settings in the panel, and can be accessed via the HELP menu which is available on both displays.