

# Power-Touch® 4

Item No.:  
12700000

Move Equipment	Manage Quick Courts	Setup ▾	Tap to Lock
Quick Courts	Basketball	<a href="#">Clear List</a>	
	Backstop 1		
Basketball	Backstop 2		
Curtains			
Height Adjusters			
Cages, VB, etc.			
		Equipment to Move	Direction
		× Backstop 1	<div>↑</div> <div>↓</div>
		× Backstop 2	<div>↑</div> <div>↓</div>
		× Curtain 1	<div>↑</div> <div>↓</div>
		Hold to start moving all equipment in the list. Lift to stop.	
		Hold to Move Equipment	



## Operation Manual

SAVE THESE INSTRUCTIONS FOR FUTURE USE

PORTER®



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## OPERATION AND MAINTENANCE MANUAL

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INSTRUCTIONS: Dealer and/or Installation Supervisor,  
Please give this book to the Owner/Customer

## GUARANTEE

All materials and workmanship of basic materials are guaranteed to be free and clear of defects. Defective material will be repaired or replaced, at our option, subsequent to complete information being received by us concerning the nature of the defect for a period of one year from the date established by the certificate of occupancy or certificate of substantial completion, whichever shall occur first or otherwise documented and signed by an officer of Porter Athletic, Inc.

<b>NAME OF PROJECT:</b>	

<b>NAME OF DEALER:</b>	<b>NAME OF INSTALLATION COMPANY:</b>
<b>PHONE #:</b>	<b>PHONE #:</b>

Porter Order Number \_\_\_\_\_  
Date of Scheduled Shipment \_\_\_\_\_  
Date of Substantial Completion \_\_\_\_\_

The gymnasium equipment for this project has been custom fabricated according to the Owner's/Architect's specification. Care has been taken to fabricate and install this equipment to provide years of safe, satisfactory use and trouble free service.

The key to satisfactory service is proper operation and care. Should any malfunctions occur, please notify your supervisor and call your local Porter Dealer or Representative.

## SYSTEM LOG-ON

If the screen is asleep, tap it to bring up the logo screen. Tapping the logo screen will bring up the login screen (see next page).

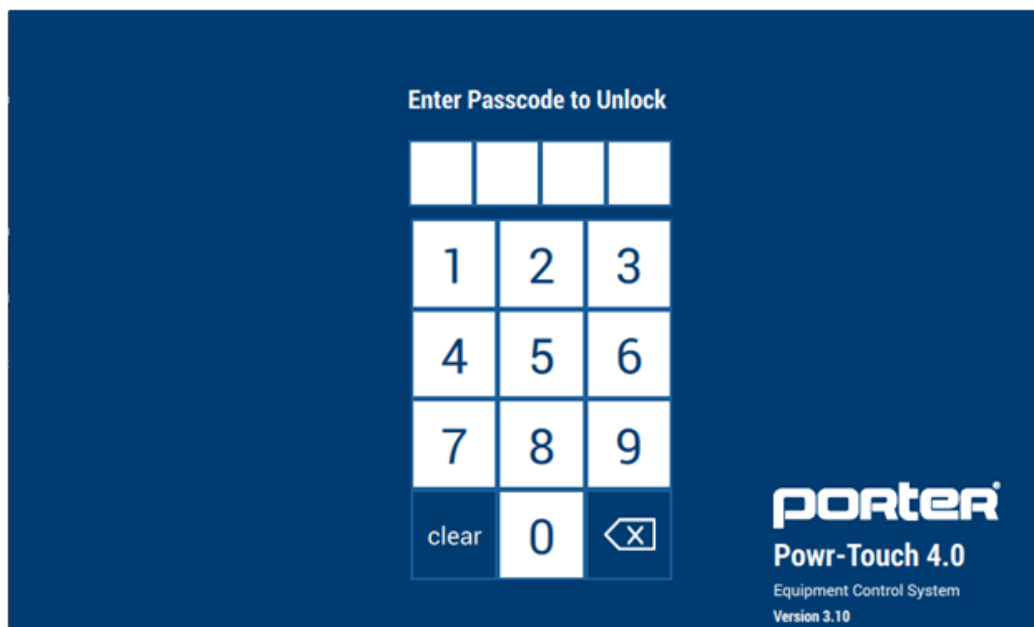


If the system is being used at another display, the logo screen will display with a "SYSTEM IN USE" message and you will not be able to log in until the other display has been locked.



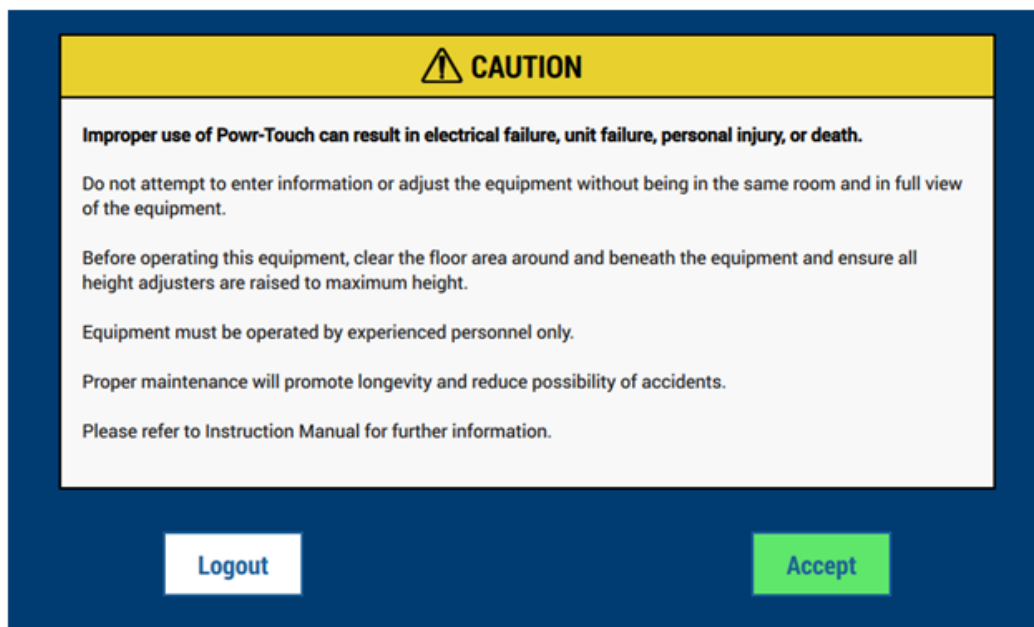
## SYSTEM LOG-ON CONT.

To log onto the Powr-Touch 4 system, touch the numbers on the screen to enter your 4-digit passcode. Upon initial installation, the passcode is 1111.



The login screen has a dark blue background. At the top, it says "Enter Passcode to Unlock". Below this is a numeric keypad with four empty boxes for the passcode. The keypad has numbers 1-9, a "clear" button, a "0" button, and a back arrow button. In the bottom right corner, the "porter" logo is displayed above "Powr-Touch 4.0", "Equipment Control System", and "Version 3.10".

Once your passcode has been accepted, important safety information will be displayed. After reading this, touch the "Accept" button and the Move Equipment Screen will be displayed.



The safety screen has a yellow header with a warning triangle and the word "CAUTION". The main text area is white with black text. At the bottom, there are two buttons: "Logout" (white with blue text) and "Accept" (green with white text).

**CAUTION**

**Improper use of Powr-Touch can result in electrical failure, unit failure, personal injury, or death.**

Do not attempt to enter information or adjust the equipment without being in the same room and in full view of the equipment.

Before operating this equipment, clear the floor area around and beneath the equipment and ensure all height adjusters are raised to maximum height.

Equipment must be operated by experienced personnel only.

Proper maintenance will promote longevity and reduce possibility of accidents.

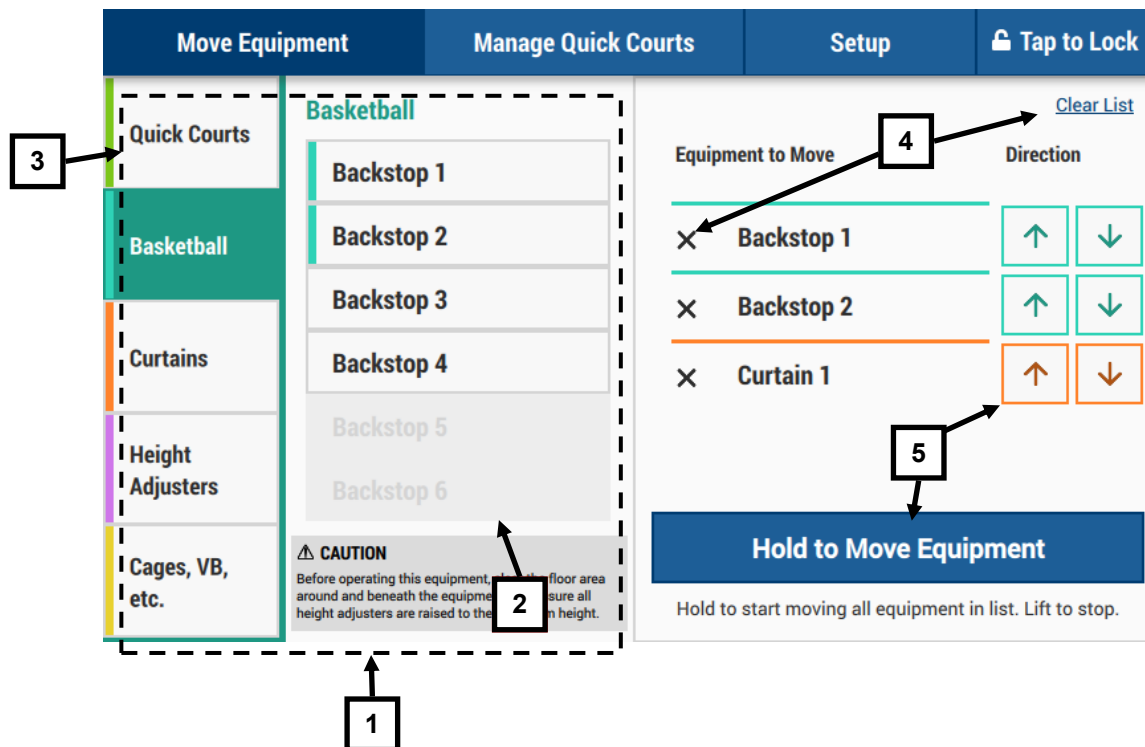
Please refer to Instruction Manual for further information.

**Do not attempt to enter information or adjust equipment without being in the same room and in full view of equipment.**

**User assumes total responsibility and risk for using this device to control equipment.**

**Failure to pay full attention to the operation of equipment could result in death, serious injury, equipment or property damage.**

# CONTROL EQUIPMENT

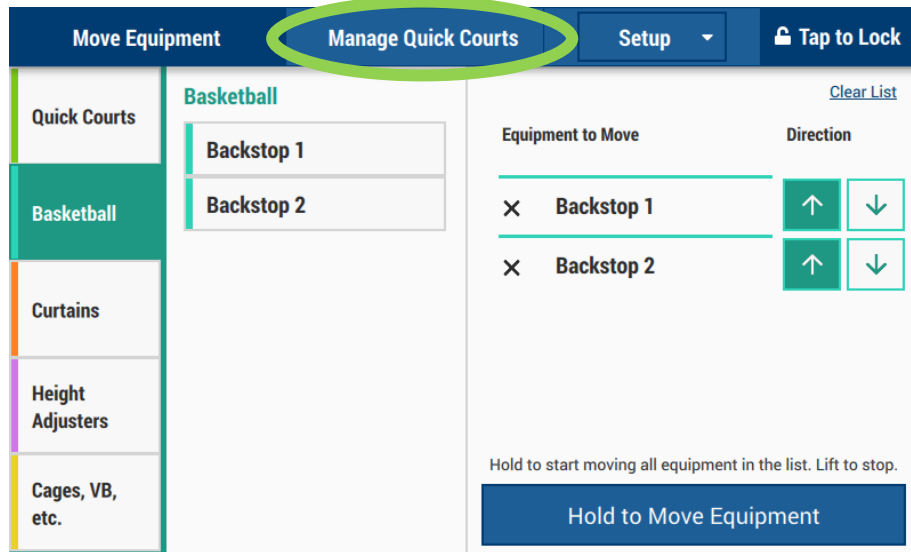


1. To operate a single unit or manually populate groups of equipment please select unit(s) from the categories on the left that you would like to move.
2. Only two pieces of equipment can be operated per control panel relay bank (two per panel). The display monitors the selections and grays out equipment in a relay bank that already has two selected for operation. Available combinations may differ depending on control panel wiring.
3. Use "Quick Courts" to select personalized equipment lists previously saved. (See Create a Quick Court section)
4. To remove a single piece of equipment from the list, you may tap the "X" to the left of the equipment name. To remove all equipment from the list, tap "Clear List" button above the equipment list.
5. To operate equipment ensure a direction (up/on or down/off) is associated with each piece of equipment. Hold down the "Hold to Move Equipment" button on the bottom right of the screen. Continue holding the button until all equipment has moved to the desired location.

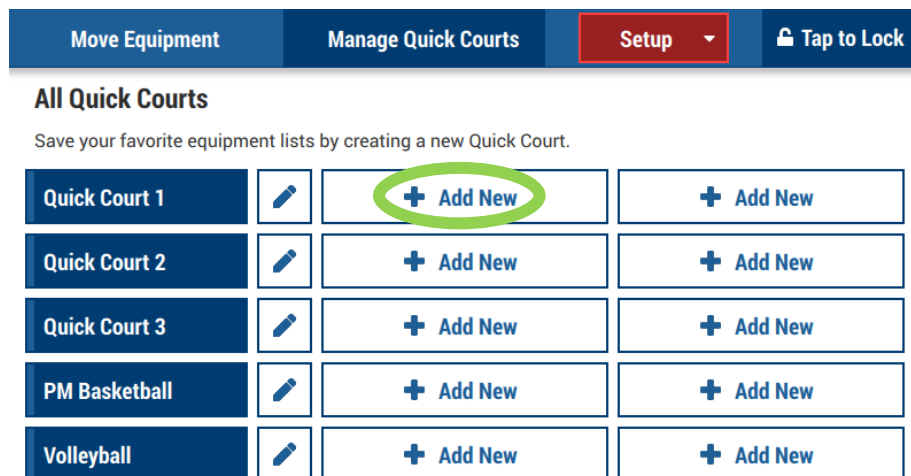
**Note:** For safety reasons, the "Move Equipment" button is a momentary contact. The user will need to hold the button for the full run cycle. When the button is released, motion will stop. Directional devices should be equipped with limit switches that, when set properly, will stop equipment motion appropriately, so the control operator may keep the button pressed until all motions stop.

# CREATE A QUICK COURT

Select "Manage Quick Courts" from the menu bar at the top of the screen.



Tap "+ Add New"



Enter a name for your Quick Court using the on-screen keyboard.

Create Quick Court Name

Cancel

Name:

Next



## CREATE A QUICK COURT CONT.

Select the equipment you want to add to a Quick Court from the lists on the left and select the direction of operation for added equipment on the right. When you are done, tap the “Save changes” button at the bottom right of the screen and your Quick Court will be added to the Quick Court list on the Move Equipment screen.

You can also change the name of your quick court or delete the Quick Court on the screen using the options to the right of the Quick Court name.

Move Equipment

Manage Quick Courts

Setup

Tap to Lock

QC 2

[Change Name](#)

[Delete Quick Court](#)

×

Basketball

Curtains

Height Adjusters

Cages, VB, etc.

Curtains

Curtain1

Equipment in Quick Court

Direction

×

Bs2-1

↑

↓

×

Bs2-2

↑

↓

×

Curtain1

↑

↓

[Clear List](#)

Save changes



## SYSTEM BACK-UP

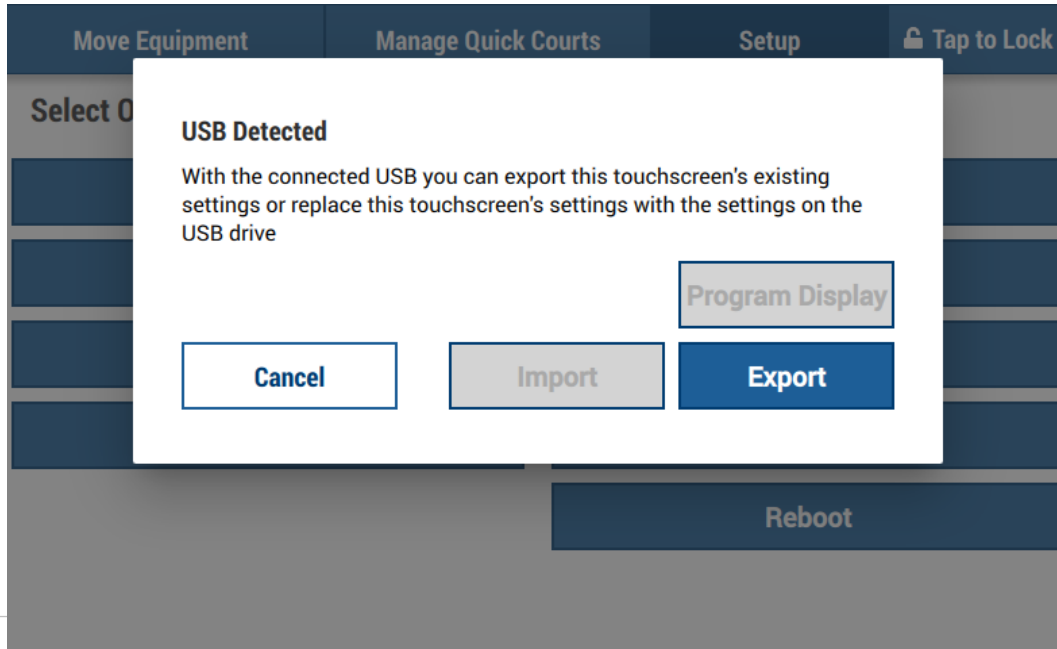
Insert a USB drive into the receptacle on the display housing.

A window will pop up with options to import, export, or program the display.

The “Import” option will only be available if the USB drive already has a backup file.

The “Program Display” option will only be available if the USB has a software update file.

Tap “Export” to save settings to the USB drive.



Another window will pop-up when the settings have been successfully exported. Check that your USB drive has a file named “powr\_touch\_4\_export.json”. This file may contain relay assignments, Quick Courts, and the Admin Passcode. The file can be re-named to be more descriptive, but it must end with “.json”.

Keep your USB drive in a safe place.

### Replace Settings

**Note:** If multiple displays are on the same system, settings can be copied directly from one screen to another without using a USB drive. See “Sync Display Settings” on page 16.

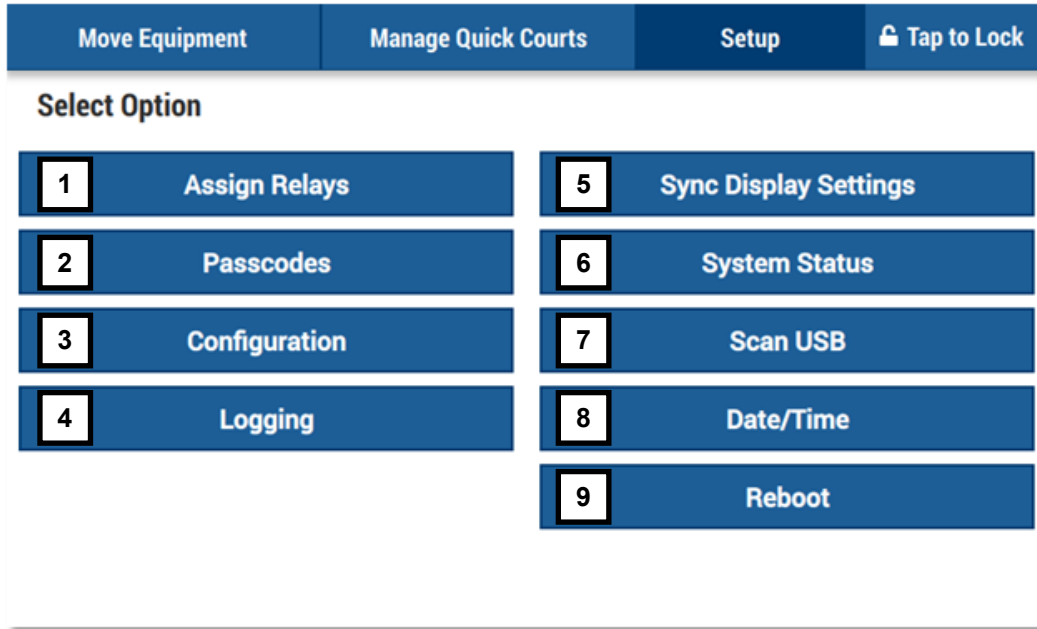
To copy settings from one display to another, or to restore previous settings, insert your USB drive with the correct .json file into the receptacle in your Powr-Touch 4 housing. The USB popup menu from above will open.

Select the “Import” option and the Import Settings window will pop-up with the option to choose a .json file from the USB drive. There is also a dropdown menu that can be used to select the display you want to copy settings to. If you have multiple displays connected to the system, they can all be updated from one display (Similar to the Sync Display Settings option). Tap “Import” to overwrite existing settings. You may need to lock the screen and log in again to see the changes.

**Note:** If you exported a file to the USB drive and the “Import” option is not available when you plug the USB drive into a display, insert the USB drive into a computer and check the file name. If there are additional characters at the end of the file, delete the additional characters until the file name ends in “.json”. Import should now be an option when the USB is connected to the display.

Example: if the file is named “powr\_touch\_4\_export.json.Zbw785”, delete the “.Zbw785”.

## SETUP MENU



**Note:** Some Setup options will require the use of an Admin password. The default Admin password is 1234.

1. **Assign Relays:** (Admin password required) Name and categorize each gym equipment relay set and/or auxiliary relay in the system. This screen is also where you assign the touchscreen address.
2. **Passcodes:** (Admin password required) Make changes to the touchscreen and Admin passcodes.
3. **Configuration:** (Admin password required) Adjust the move button delay and style. Turn on/off the auto reset at midnight option.
4. **Logging:** (Admin password required) This screen displays system events which can be saved to a file and exported to a USB drive.
5. **Sync Display Settings:** Find other displays in the system and sync the settings (relay assignments, quick courts, etc.) from the active display. This is an alternative to using a USB drive to copy a settings file from one display to another.
6. **System Status:** This option allows you to verify communication between the control panels and displays, and it will show their software version.
7. **Scan USB:** If you exited the USB popup screen and would like to pull it back up without removing and re-inserting the USB drive, you can use the Scan USB option.
8. **Date/Time:** This will allow you to set the date and time of the display. This is important for systems that are configured to auto reset at midnight (see Configuration).
9. **Reboot:** This will logout of and reset the display.

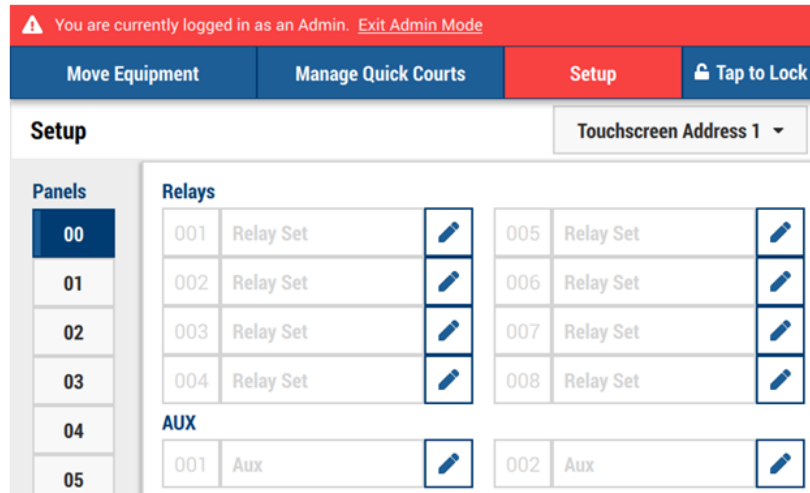
# ASSIGN RELAYS

Initial installation will require all relay sets to be assigned. Refer to installation documents from the installer and/or electrician to determine which equipment is assigned to each relay.

To assign relay sets, tap “Setup” from the top menu bar, then tap “Assign Relays”. You will be prompted to enter your Admin Passcode.

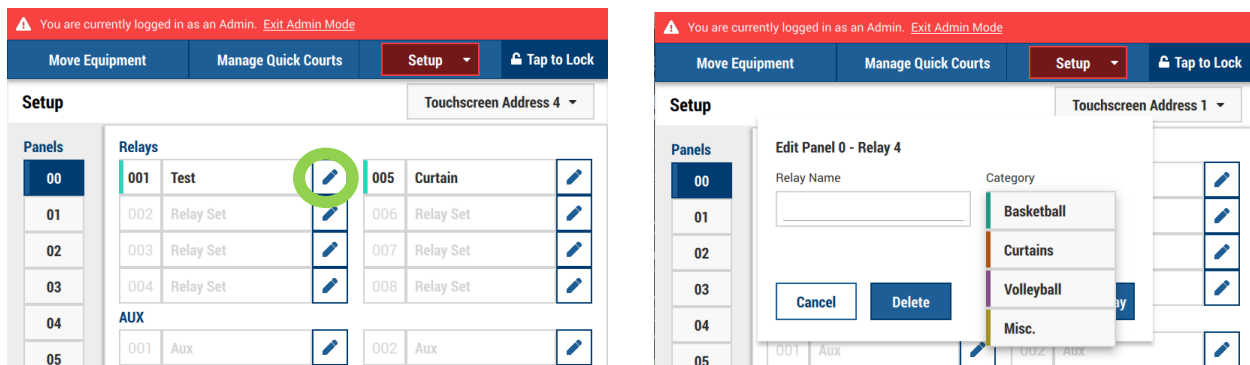
The default Admin Passcode is 1234.

Once you have entered your passcode, the Setup screen will appear.



On the left will be a list of panel numbers, 00 to 15, and on the right will be the relay sets divided into two banks.

Tap the pencil icon to edit or create a name for each relay set on your system. An “Edit Panel-Relay” window will pop-up. Use names for the equipment that all users will understand. You will also need to select an equipment type from the “Category” drop down on the right of the pop-up window.



When you have finished naming the relay set, tap “Save Relay”. Repeat for as many relays as you have on your system. Leave unused relay sets blank.

You may toggle between the “Move Equipment” and “Setup” screens during relay set assignment to check that the correct piece of equipment is operated by the assigned relay set.

Auxiliary devices are defined at the bottom of the “Assign Relays” screen. On each relay panel, there may be up to two auxiliary on/off devices, such as lights, scoreboards, fans, etc.

## ASSIGN TOUCHSCREEN ADDRESS

If your facility has more than one display screen on the Powr-Touch 4 system, you will need to ensure that each touchscreen display is assigned a unique address, up to a maximum of 7. This is done from the Assign Relays option in the Setup menu.

You are currently logged in as an Admin. [Exit Admin Mode](#)

Move Equipment

Manage Quick Courts

Setup

Tap to Lock

Setup

Touchscreen Address 1 ▾

Panels

00

01









02

03



04

05

Relays

001	Relay Set		005	Relay Set	
002	Relay Set		006	Relay Set	
003	Relay Set		007	Relay Set	
004	Relay Set		008	Relay Set	

AUX

001	Aux		002	Aux	
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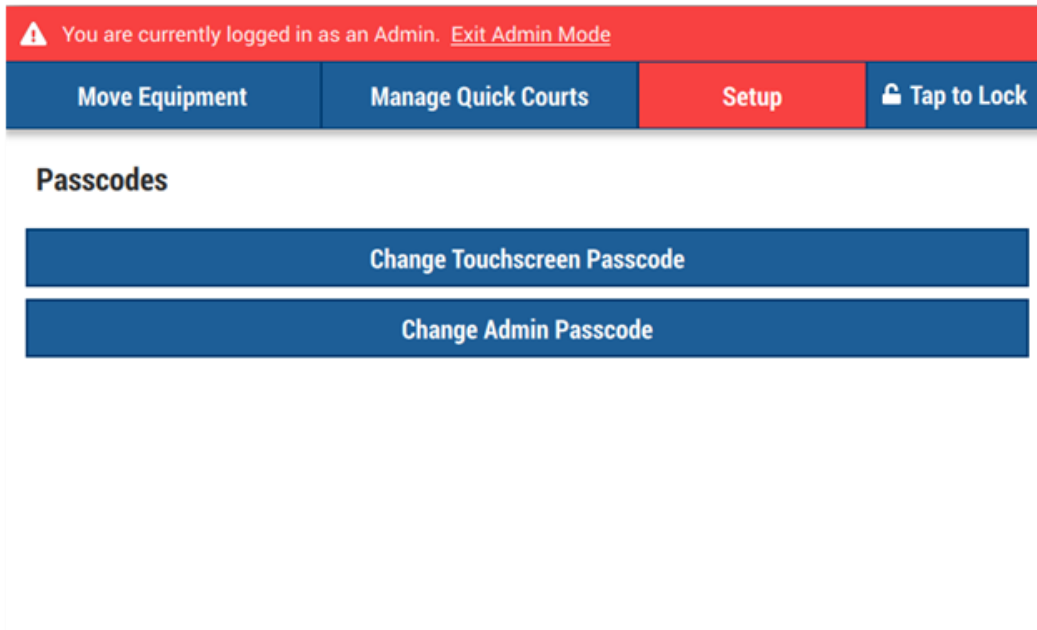
12

# PASSCODES

To change passcodes, tap “Setup” from the top menu bar, then select “Passcodes” from the setup menu.

You will be prompted to enter the Admin Passcode. The default Admin Passcode is 1234. Use your USB back-up to reset the Admin Passcode if you have changed it and forgotten what it is.

“Change Touchscreen Passcode” and “Change Admin Passcode” will display on the screen.

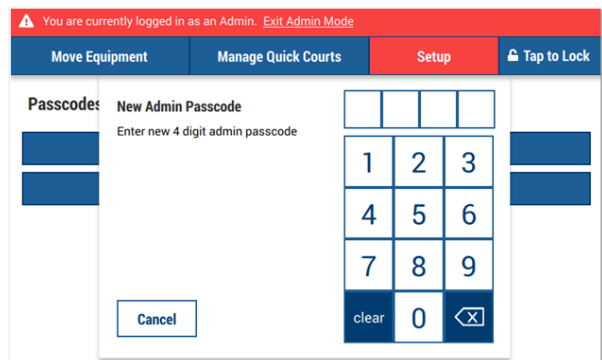
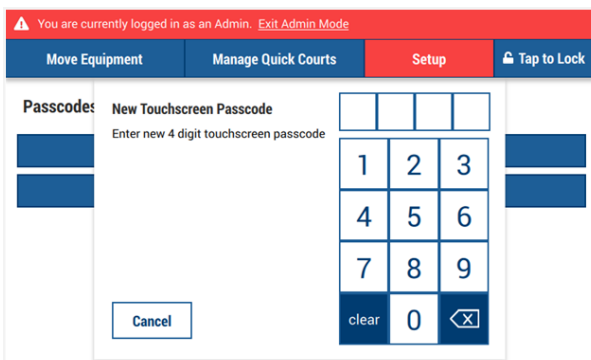


Select which passcode you would like to change.

Changing the Touchscreen passcode will change the passcode for all displays.

Changing the Admin Passcode will only change the Admin passcode for that display.

A number pad will display on the screen. Follow the on-screen prompts to enter and verify the new passcode. A window will pop-up indicating that the passcode change is complete. Tap “OK”.



## CONFIGURATION

You are currently logged in as an Admin. [Exit Admin Mode](#)

Move Equipment

Manage Quick Courts

Setup

Tap to Lock

Configuration

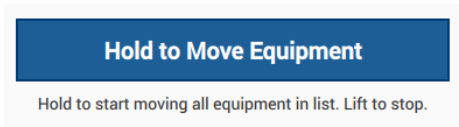
Move Button Delay Off	200
Move Button Style	Large Button
Auto Reset At Midnight	<input checked="" type="checkbox"/>

The **Move Button Delay Off** setting controls how quickly the equipment will stop operating when the Move Equipment button has been released. The settings range from “None”, which will stop operation as soon as you release the button, to “1000”, which will stop operation one second after you have released the button. This can be helpful if you accidentally move your finger off the button. It will allow you to reposition your finger before the equipment stops running.

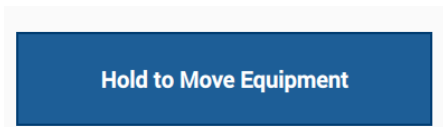
Note that if you release the Move Equipment button to change the operation direction or add/remove equipment from the list and then press the Move Equipment button again before the previous operation deactivated, the operation of the previous selection will continue. You must wait for the equipment to stop before the Move Equipment button will operate the new selection.

The **Move Button Style** can be set to:

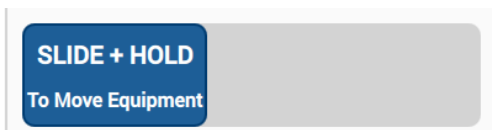
- Default (none)



- Large Button



- Expanded Release Zone: Similar to Default but with a slightly larger release zone in case your finger slips away from the button during operation.
- Slider Button



The **Auto Reset At Midnight** setting can be toggled on and off with the checkbox. The system clock must be set manually(See Page 18). We recommend leaving this setting on to avoid any unexpected errors. The reset will not occur while the system is in use.

# LOGGING

Move Equipment	Manage Quick Courts	Setup	Tap to Lock
<b>Logger</b>		Current <span>▼</span>	<b>Flush</b>
<pre> [2024/08/23][09:26:34.669][Warn][Platform]Failed to read RTC! [2024/08/23][09:26:34.170][Info][Platform]New Allocations Max: 207088 diff(+87) [2024/08/23][09:26:34.170][Info][Platform]New Memory Max: 23999053 diff(+25816) [2024/08/23][09:26:33.642][Warn][Platform]Failed to read RTC! [2024/08/23][09:26:33.169][Info][Platform]New Allocations Max: 207001 diff(+59) [2024/08/23][09:26:33.169][Info][Platform]New Memory Max: 23973237 diff(+10936) [2024/08/23][09:26:33.148][Warn][Platform]Failed to read RTC! [2024/08/23][09:26:32.168][Info][Platform]New Allocations Max: 206942 diff(+3) [2024/08/23][09:26:32.054][Info][Platform]New Memory Max: 23962301 diff(+614) [2024/08/23][09:26:32.168][Warn][Platform]Failed to read RTC! [2024/08/23][09:26:31.647][Warn][Platform]Failed to read RTC! [2024/08/23][09:26:31.046][Info][Platform]New Allocations Max: 206939 diff(+79) </pre>		Volatile Buffer Used <div>1%</div> Auto Flush To File(s) DISABLED <span>▼</span>	
		<b>Delete All</b>	
		Export	

The Logger Screen is designed to facilitate interaction with the PT4 Logs.

The Current Log is stored in a Volatile Buffer in memory and displayed on the left side of the screen. At any time, the user can click the “Flush” Button in the upper right corner of the screen. This “Flush” action, takes the entire Current Log and writes it to a file with an appended date-time stamp.

**Note:** If the date and time were not set up properly in the Date/Time screen, then the log time stamps may not be accurate.

Once a log has been Flushed to a file, that log, and all other logs that have been Flushed, can be viewed on the LCD screen by clicking the dropdown button at the top-center of the screen and selecting the relevant Flushed file by date & time.

These files can all be exported to an empty USB by inserting the USB then clicking on the Export button on the lower right hand corner of the screen.

## SYNC DISPLAY SETTINGS

Move Equipment		Manage Quick Courts	Setup	Tap to Lock
Sync Displays				Scan
Display 1	This Display			Sync
Display 2	Offline			Sync
Display 3	Offline			Sync
Display 4	Offline			Sync
Display 5	Offline			Sync
Display 6	Offline			Sync
Display 7	Offline			Sync


To sync settings between displays, they must be assigned a unique display address (see Assign Touchscreen Address)

When you enter this screen, the system should automatically scan for other displays. If there is a display connected to the system that doesn't show up on the list, verify that it has been assigned a unique address and then tap scan to refresh this page.

When another display has been found, the Sync option will become available. Tap the Sync button to copy settings from the active display to the selected display.



## SYSTEM STATUS

Move Equipment		Manage Quick Courts		Setup	 Tap to Lock
Scan System					Scan
Panel 0	Offline	Panel 1	Polling	Display 1	V 3.9
Panel 2	Queued	Panel 3	Queued	Display 2	Offline
Panel 4	Queued	Panel 5	Queued	Display 3	Offline
Panel 6	Queued	Panel 7	Queued	Display 4	Offline
Panel 8	Queued	Panel 9	Queued	Display 5	Offline
Panel 10	Queued	Panel 11	Queued	Display 6	Offline
Panel 12	Queued	Panel 13	Queued	Display 7	Offline

This is the System Status Screen

Notice that, in this example screen, all the displays have been scanned and only 1 Display is detected in the system. Panel 0 has already been scanned and has been determined to be offline. Panel 1 is in the process of being scanned and the rest of the panels have not yet been scanned.

This screen is essential during setup in order to verify that the display can communicate with any other displays and the relay panels that are connected to the system. Panels and displays that are powered on and are communicating successfully will show a version number.

## DATE/TIME

Move Equipment	Manage Quick Courts	Setup	Tap to Lock
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Set Date/Time

Update

YEAR	MONTH	DATE
2024	January	

HOUR	MINUTE	SECOND
0	0	0

The Powr-Touch 4 system does not have access to the internet, so this screen will have to be used to manually set the date and time.

The clock only runs when the LCD is powered. In case of extended power outages, the clock will need to be adjusted since it could affect other features, such as the automatic reset.

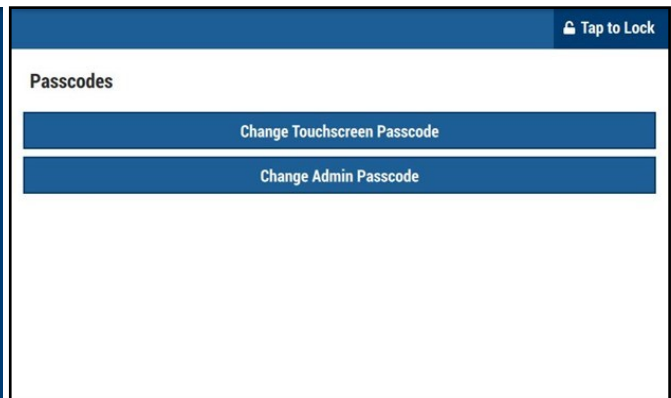
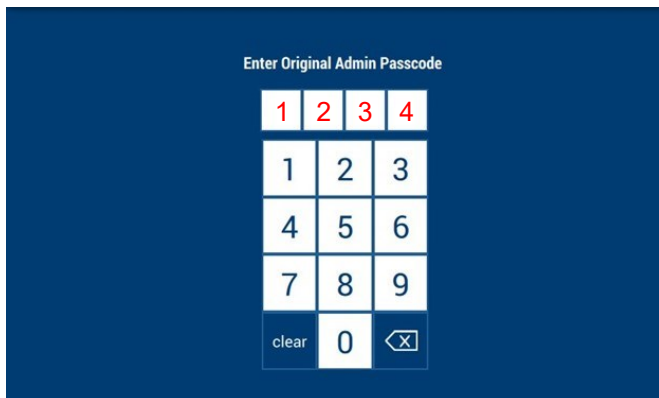
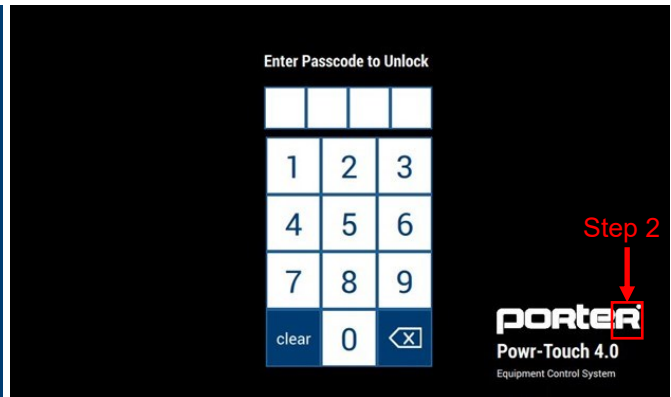
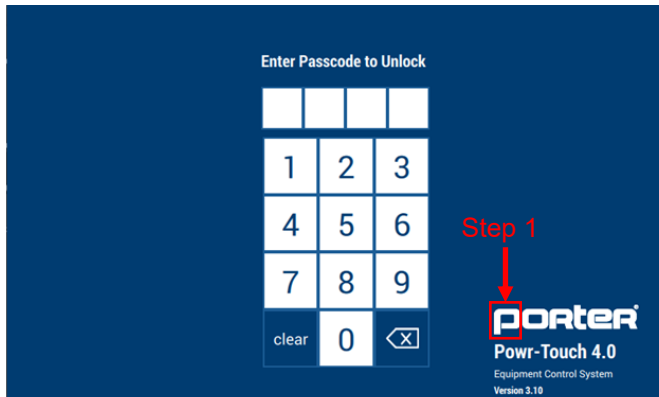
**Note:** If the system is in use when the reset time is reached, the reset feature will not activate.

## RESETTING THE TOUCHSCREEN PASSCODE

In the event the touchscreen passcode is lost, use the method below to reset it. For older display versions, contact Porter.

### On-screen Passcode reset for display versions 3.3 and on:

1. Touch and hold the P in PORTER in the lower right hand corner of the login screen until the background turns black.
2. Touch and hold the R at the end of PORTER until you are prompted to enter the original admin passcode.
3. Entering '1234' will bring you to a page that allows you to update the passcodes.



# TROUBLESHOOTING GUIDE

## *Powr-Touch® 4 Equipment Control System*

SYMPTOM	POSSIBLE SOLUTION
Display not lit	Ensure there is power to the display.
Selection moves the wrong equipment	Ensure relay sets are assigned correctly. Reassign relay sets as required.
Selection moves equipment in the wrong direction	Check that correct direction arrow is selected.
Equipment does not stop at limits	Check that limits are set correctly and cable is wrapping correctly and tightly on the winch drum.
Equipment stops moving	Is more than one display attempting to operate equipment? Only operate equipment from one display at a time.
	Check that equipment has not engaged a limit switch.
Display Passcode doesn't work	If the display was recently updated or settings were replaced, the display may require a power cycle. Turn the power off at the breaker, wait a few seconds, and re-energize. Try passcode again.
	The default passcode is 1111. If it was changed and forgotten, reset to the default by setting dip switch six on the master relay panel to the open position for one second, then back to the closed position. If it wasn't changed or you are sure you are using the correct passcode, power cycle the device to flush the memory.
	Check that the communication wires (485+/485-) are correctly wired to the display unit. Refer to page 12 of the Installation manual for more information.
Administrator Passcode doesn't work	Use USB backup to restore original Admin passcode.
The same piece of equipment can be added to the display multiple times.	If the display was recently updated or settings were replaced, the display may require a power cycle. Turn the power off at the breaker, wait a few seconds, and re-energize.
"Import" option not available when USB is inserted	Insert the USB drive into a computer and check the file name. If there are additional characters at the end of the file, delete the additional characters until the file name ends in ".json".
	Example: if the file is named "powr_touch_4_export.json.Zbw785", delete the ".Zbw785"
Relays assignments missing when display loses power and then turned back on	Make sure display version is 3.11 or higher. Contact Porter for update files.
I want to reset my system to factory defaults	Reset files are available from Porter upon request.

## **INSTALLER NOTES**

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**porter<sup>®</sup>**

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[www.porterathletic.com](http://www.porterathletic.com)  
(888) 277-7778

**SAVE THESE INSTRUCTIONS FOR FUTURE USE**