

PHD ULTRA™ Touchscreen Button Reference

	Settings: Access the settings menu used to adjust the following parameters: Date and Time, Audible Alarms, Pusher Block Force, Backlighting, RS-232 Communications, etc.		Page Down: Used to page down in a display list.
	Fast Forward: Advances the Pusher Block in the forward (infuse) direction.		Page Up: Used to page up in a display list.
	Fast Reverse: Advances the Pusher Block in the reverse (withdraw) direction.		Scroll Up: Used to scroll up in a display list.
	Accept: Used to accept the parameters/settings on a screen and return to previous screen in the menu.		Scroll Down: Used to scroll down in a display list.
	Cancel: Used to cancel any changes/entries on a screen and return to the previous screen in the menu.		Insert Step: Used to insert a new Step in a Method while editing/creating the Method. The new Step is inserted after the Step that is currently selected.
	Back: Used to go back one screen.		Delete Step: Used to delete the selected Step in a Method while editing/creating the Method. To confirm deletion, you must select the Delete Step button a second time.
	Set Delay Parameters: Used to set the date and time values for delayed operation. This permits the pump to start automatically at a preset date and time.		Move Step Up: Moves the currently selected Step in a Method up one position in the Method Order (e.g. Step 3 becomes Step 2).
	Set Delay Parameters: Indicates the Delay Timer has been set. The pump will start automatically on the day/time selected.		Move Step Down: Moves the currently selected Step in a Method down one position in the Method Order (e.g. Step 2 becomes Step 3).
	Run Preview: Access the Method Preview screen that shows a summary of steps and operating parameters.		Copy Step: Creates a duplicate (copy) of the currently selected Step in a Method and inserts it as the last Step in the Method being created/edited.
	Run/Resume: Used to Run or Resume a Method.		Touchscreen Unlocked: Indicates that the pump is currently unlocked. Pressing the button twice locks the Touchpad.
	Re-Run: Clears counters/timers and runs the selected method from the beginning.		Touchscreen Locked: Indicates that the pump is currently locked. Press the button and enter password to unlock the Touchpad.
	Stop: Used to stop running a Method.		File Options: Access the File Options menu that is used to manage the list of Methods and to export Method information to an externally linked pump or to a connected computer.
	Clear: Clears the counters/timers.		
	Minimum Value Allowed: Used to select minimum value allowed.		
	Maximum Value Allowed: Used to select maximum value allowed.		

Features of the PHD ULTRA™



Figure 1: Front view of the PHD ULTRA™.



Figure 3: Battery Insulator must be removed before use.

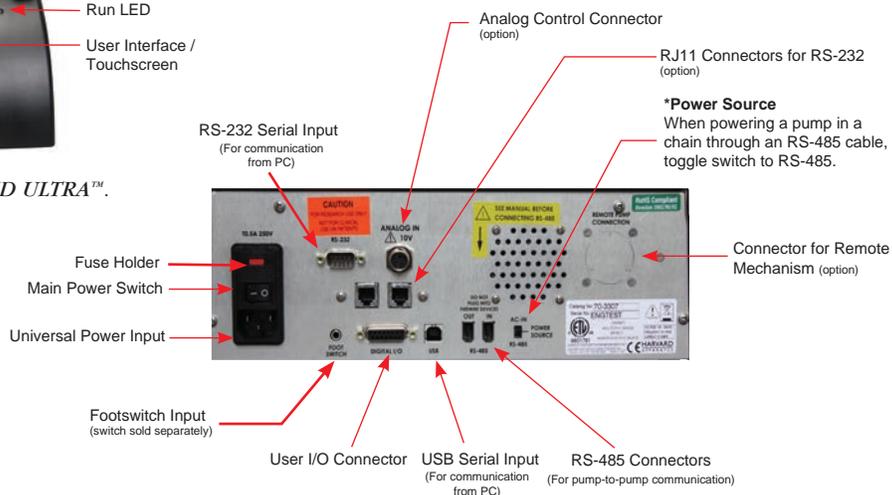


Figure 2: Rear view of the PHD ULTRA™.

PHD ULTRA™ Safety Information

Please read the following safety precautions to ensure proper use of your syringe pump. To avoid potential hazards and product damage, use this product only as instructed in this manual.

To Prevent Hazard or Injury:

Use Proper Line Cord

Use only the specified line cord for this product and make sure line cord is certified for country of use. The operating voltage range for the PHD ULTRA™ is 100-240 vac, 50/60 Hz.

Ground the Product

This product is grounded through the grounding conductor of the power cord. To avoid electric shock, the grounding conductor must be connected to earth ground. Before making any connections to the input or output terminals of the product, ensure that the product is properly grounded.

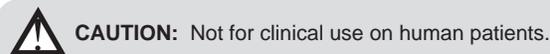
Make Proper Connections

Make sure all connections are made properly and securely. Any signal wire connections to the unit must be no longer than 3 meters.

Observe all Terminal Ratings

Review the operating manual to learn the ratings on all connections.

Use Proper Fuse



Use only specified fuses with product.

Avoid Exposed Circuitry

Do not touch any electronic circuitry inside of the product.

Do Not Operate with Suspected Failures

If damage is suspected on or to the product do not operate the product. Contact qualified service personnel to perform inspection.

Place Product in Proper Environment

Review the operating manual for guidelines for proper operating environments.

Observe all Warning Labels on Product

Read all labels on product to ensure proper usage.

