



Pinnacle Pro and Pinnacle Programming Setup Reference Guide



Setup

Initial Charge Act	On or Off	If rinse trigger signal is active longer than rinse limit setting, initial charge will occur
Charge Clock	Range: 5min - 16Hrs	System goes without a trigger signal for the amount of time set, initial charge will occur
Rinse Speed	Range: 5-100%	Adjust the output of the rinse pump
Rinse Delay	Range: 0-15s	Delays rinse pump operation when rinse trigger is received
Rinse Limit	Range: 0, 10-70s	Sets the maximum run time for the rinse pump, 0 = off, for door machine mode only
Rinse Length	Range: 5-75s	Set to the actual time it takes to run a rack through the rinse cycle, used to count racks, conveyor machine only
Sanitizer Mode	Off, Run w/rinse, Run w/Det	Set how the sanitizer pump runs with the rinse or detergent pump
Machine	Conveyor or Door	Set to the type of machine door or conveyor
Control	Concentration, Probeless or Auto Switchover	Detergent control - Concentration uses the probe, Probeless does not use the probe, also will use concentration, but will switch over to probeless if a problem with the probe is detected
Trigger	Wash/Rinse, Rinse Only, Wash Only, No Trigger	Wash/Rinse = Wash trigger for detergent, Rinse Trigger for rinse (most common) Rinse Only or Wash Only = the single trigger will call for both detergent and rinse No Trigger = Anytime the system is powered on, all pumps run based on their settings
Set Point	Range: 0-1000	Unitless scale to set the detergent concentration using the probe
Feed Rate	Range: 1-10	A scale that adjusts the pulsing of detergent feeds. The pulsing becomes for frequent as the range is feed rate is adjusted higher. A setting of 5 is recommended.
Feed Limit	Range: 5s - 10min	The maximum time the detergent pump will run, while in concentration mode.
Re-Charge	Range: 1s-5min	Top off charges of detergent to maintain proper titration, probeless function
Dead Cycle	Range: 0-10	The number set represents how many dish machine operations that does not get any detergent. 0= a detergent charge every door operation, 1-10 is how may door operations without a detergent charge before the next detergent charge, door machine mode only
Dwell Time	Range: 1s - 10min	Sets the amount of time between detergent charges, conveyor machine mode only
Init Charge	Range: 1s - 10min	Initial Charge - Probeless -first charge of detergent
Detergent Alarm	Off or On	Turns on the detergent alarm for probeless mode. Conductivity probe required.
Alarm SP	Range: 0-1000	Set a concentration point that will trigger a out of detergent alarm. It is recommended to set halfway between a tank of water with no detergent and a fully titrated tank of water. Example: no detergent input reading = 100, fully titrated tank = 300, setpoint should be 200.



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Adv (Advanced)

Alarm Delay	Range: 5s - 10min	Sets the amount of delay time before alarming when the system detects a out of detergent condition. This uses the concentration probe to detect the out of detergent condition. Concentration and Auto Switchover modes only
Alarm Volume	Range: OFF, Low, Med, High	Adjust the audible volume of the alarm
Dirty Water Alarm	Range: 0min - 4hrs	Alarms for a wash tank water change, 0=off, will activate audible alarm and the AUX 24VDC output on the board to add light or sounding device.
Temperature Unit	Celsius or Fahrenheit	Sets the units used for temperature measurement when using the wash tank or rinse water temperature probes.
Tank Alarm SP	Range: 60-200F (15-95C)	Set the set point to alarm for a low temperature condition, 000 = off, wash temp sensor probe kit required.
Rinse Alarm SP	Range: 60-200F (15-95C)	Set the set point to alarm for a low temperature condition, 000 = off, rinse temp sensor probe kit required.
Test Pump Dosing	Uses programmed values	This will allow probeless pump settings, rinse and sanitizer to be tested for output based on the programmed value. A graduated cylinder or other measuring cup or bottle is required to catch the output form the pump.

Admin

Time/Date	Clock and Date values	Use this feature to set the date and time. Note that the system will be set to correct date and time automatically, each time a smart device is connected via Bluetooth.
Time Format	12 or 24 Hour Clock	Set to either a 12 hour clock or 24 hour clock.
Date Format	mm/dd/yyyy or dd/mm/yyyy	Set the date format.
Set New Passcode	XXXX	Set a unique 4 numeric pass code. The factory default is 0000.
Dispenser Name	Up to 16 characters	Set a unique name for the dispenser. This will identify the dispenser in reports and on the Smarttech App.
Clear Rack Counts	Yes or No	Clears the load counts back to zero.
Clear Event Log	Yes or No	Clears the event log. The event log records pump runs, alarms, etc.
Set Factory Defaults	Yes or No	Sets all of the programming values to factory default.
Save Data Log	Insert USB	Use a USB drive to download a date log.
Software Update	Insert USB	The software can be updated via the USB port. Software upgrades are provided at www.demaeng.com . Download to a USB memory drive and install on a Pinnacle Pro & Pinnacle.