# DM6000 Configurator – Help

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## ‘Set-up Summary’ Page:

[<<Click to load the image>>](images/summary.png)

This page provides a brief summary of the settings available. This page can be used to preview the setting information for the current DM6000 configuration file being created/ edited. This page displays the settings made across different pages in a table.

* ‘Configuration settings’ are listed under the ‘configuration Settings Page’ Table.
* ‘Program settings’ are listed under the ‘Program Settings Page’ Table.
* ‘Alarm settings’ are listed under the ‘Alarm Settings Page’ Table.
* ‘Pump settings’ are listed under the ‘Pump Settings Page’ Table.
* ‘System settings’ are listed under the ‘System Settings Page’ Table.

## ‘Configuration Settings’ Page:

[<<Click to load the image>>](images/configuration.png)

This page allows the user to make changes to the configuration settings of a DM6000 Controller. This page can be used to set/ modify/ edit various configuration related setting items for a DM6000 Controller’s Configuration file.

There are two sections in the Configuration settings page:

1. Selections.
2. Options.

**‘Selections’ Group:**

Various selectable options are available under ‘Selections’ Group.

1. **Detergent Control:**

Select the control type – Probe or Probeless. A Probe Type will have a conductivity probe and a probeless will not have a conductivity probe. Probeless mode works on a TIMED interval. (Default would be Probeless)

1. **Machine Type:**

Select the Machine type here. Machine Type can be of any of the following: Door, Conveyor, and Alternative Door (Door machines which do not provide a rinse signal during fill) types. Please make appropriate selections based on the Machine’s Door type here. (Default would be ‘Door’)

1. **Detergent Type:**

The Detergent Type used can be selected here. Select whether the detergent type is Liquid or Capsule type. (Default would be Liquid)

1. **Alarm Options:**

The Alarm Settings options can be configured here. Choose an option among- ‘Off’, ‘Internal’, ‘External’ or ‘Both’. (Default will be off).

The Alarm will sound an audible test whenever the Internal or Both setting is chosen. The Test option if selected will sound the audible test continuously until it is de-selected.

1. **Unit of Measure:**

Select Appropriate Unit of Measure – SAE or Metric Scale based Unit of measure.

The device defaults to imperial measurements (pounds & ounces), but can be changed to utilize metric measurements (kilos and milliliters).

1. **User Prime:**

This option is related to the User prime of pumps. Available options: ‘Disable’, ‘Enable’, ’30 Seconds Limit’. (Default is disabled).

1. **Initial Charge:**

Select the type of Initial Charge – Auto or Manual.

**‘Options’ Group:**

Various selectable options are available under ‘Options’ Group.

1. ‘Display Live Conductivity’ Check box – allow user to enable Display of live conductivity at the controller screens.
2. ‘Display Rinse Temperature’ Check box – allow user to enable display of Rinse Temperature at the controller Screens.
3. ‘Display Live Tank Temperature’ Check box – allow user to enable display of Live Tank Temperature at the controller screens.
4. ‘Auto Switch Mode’ Check box – enable ‘Auto Switch Mode’ from Probe to Probeless.
5. **3rd Product Run:**

The Drop down box allow user to specify when the third product pump should run. Choices are either with the Rinse pump or with the Detergent pump

1. **‘Pulse feed’ options:**

This option is used to adjust the length of time that the detergent feeds (the pulse) and the interval between pulses, based upon detergent strength and the distance between the product container and dish machine. The Default setting is 2-ON 6-OFF 80% Set point. Select the OFF selection for No Pulse Feed.

Available options are:

OFF –NO PULSE FEED

1-ON 9-Off 50% SPT

1-ON 9-OFF 70% SPT

2-ON 6-OFF 50% SPT

2-ON 6-OFF 80% SPT (Default)

4-ON 4-OFF 70% SPT

6-ON 4-OFF 80% SPT

6-ON 1-OFF 90% SPT

1. **Conveyor Time:**

If the Machine type is set to Conveyor this menu will be displayed to set the number of seconds it takes for a dish machine conveyor to move one rack a single rack length’s distance. The range of adjustment is 1-29 seconds. The default is 10 seconds.

## ‘Program Settings’ Page:

[<<Click to load the image>>](images/program.png)

This page allows the user to set/ modify Programmable setting options based on Probe/ Probeless Types of Detergent Control. The Following various options are available based on the Detergent Control Type (Probe/ Probeless) Modes.

1. **‘Probe’ Mode Settings:**

Various options are available for configuring the Programmable settings while the Detergent Control Type is Probe.

1. **Rinse Pump Speed:**

This menu is used to display and edit the Rinse Pump Speed in RPM’s. Press the ENTER button to begin editing the range is 0.5 – 59.5 in 0.5 RPM steps.

1. **Sanitizer Pump Speed:**

This option is used to display and edit the 3rd Product Pump Speed in RPM’s. Press the ENTER button to begin editing the range is 2 – 110 in 1 RPM steps.

1. **Detergent Set point:**

This option is used to set the detergent Set point for use in Probe Mode operation. The menu displays the live current tank reading and currently programmed set point. It allows options to Manually Add more detergent, Set the value of the Set Point by typing a value, or using the current tank reading as the set point.

1. **Rinse Delay Time:**

This option is only available when the Machine Type is Door and the Rinse Feed Option is set to Rinse on Rinse. This setting minimizes rinse product waste by injecting product only during the last specified seconds of each rack. The range for this adjustment is 0-19 seconds.

1. **Rinse Feed Option:**

The Rinse Feed Option can be any of: ‘Rinse on Rinse’ or ‘Rinse on Detergent’

Option 1 will run the rinse pump each time the rinse signal activates (for the duration of time the signal is present). Option 2 will run the rinse pump for a fixed time of 12 seconds each time the detergent signal activates.’

1. **‘Probeless’ Mode Settings:**

Various options are available for configuring the Programmable settings while the Detergent Control Type is Probeless (TIMED).

1. **Detergent Initial Charge:**

Provides option to set the ‘Initial Charge’ Level for ‘Detergent flow’, while the Detergent Control Type is DOOR.

An Automatic Initial Charge in a Door Type dishwasher occurs each time the dispenser receives a rinse signal that was not preceded by a detergent signal within 90 seconds prior (i.e. on an initial fill). When this condition occurs after a 1 second signal qualification, this triggers the Auto Initial Charge which consists of disabling the rinse feed and feeding detergent for the preset time (Detergent Initial Charge). Normal rinse signal activations (within 90 seconds after a detergent signal) will not trigger an initial charge.

1. **Detergent Dose:**

Allow user to set the ‘Detergent Dose’ Levels. Range for this parameter is 0 - 59 Seconds.

In a Door Type dishwasher, a detergent dose of a programmed time will occur once each cycle when the Det Signal is activated (1 second qualification). The rinse signal must then activate to run the rinse pump before Detergent can run again.

In an Alternate Door Type dishwasher Detergent is dispensed when the Rinse Signal is activated based on the detergent dose interval and detergent dose time.

In a Conveyor Type dishwasher, a detergent dose of a programmed time will occur when the accumulated Rinse On Signal time reaches the conveyor rack time multiplied by a programmed detergent dose interval (1,2 or 3 racks) The rinse signal does not need to be toggled off and back on for another dose to occur.

1. **Detergent Dose Interval:**

Set the Detergent Dose Interval in ‘Racks’. Range for this parameter is 1 – 3 Racks.

In a Conveyor dishwasher a detergent dose will occur when the accumulated Rinse ON time (accrued either continuously or with interruptions) is equal to the rack time multiplied by the detergent dose interval set in this menu.

In a Door type dishwasher a rack is counted each time the door is opened and closed.

The available dose intervals are every rack, every second rack, or every third rack so the range for this setting is 1-3.

1. **Low Detergent Threshold:**

Set the ‘Low Detergent Threshold’ level. Range for this parameter is 0 – 19, 0 being off.

A low detergent alarm is available for probeless mode if a conductivity probe is installed in the same manner as for detergent conductivity control. When the probe is connected, it senses detergent conductivity at 20 different preset values (0-19). Each setting is equivalent to a calibrated conductivity value divided by 5. For example, the setting of 5 is equal to a conductivity setting of 25. When the probe senses reduced conductivity for a certain period of time as selected by rack number, it will activate the low detergent alarm. If the probe leads are either left open or shorted, this feature does not operate. A setting of 0 turns the alarm off.

## ‘Alarm Settings’ Page:

[<<Click to load the image>>](images/Alarm.png)

This page allows the user to set/ modify Alarm setting options based on Probe/ Probeless Types of Detergent Control. The Following various options are available based on the Detergent Control Type (Probe/ Probeless) Modes.

1. **‘Probeless’ Mode Settings:**

Various options are available for configuring the Alarm settings while the Detergent Control Type is Probe.

1. **Low Detergent Alarm:**

A Count of Racks to trigger the Alarm (Low Detergent Condition). Range for this parameter is 1 – 99 Racks. To enable the feature Select the Check box.

This menu setting determines how many racks can run before the Low Detergent Alarm is activated. The range is 1-9 racks. Note the alarm will occur only if there is no increase in detergent concentration and the unit is below the set point for the number of racks set. The low detergent alarm rack count resets itself when it detects a rise in detergent concentration > 10% the home screen will indicate the visual alarm as LOWDET. The audible alarm beeps three times per rack.

1. **Machine Cleaning Hours:**

This setting sets the number of hours at which point to trigger a Machine Clean Alarm (De-Lime required). This is based on the accumulated Detergent Signal On time. The range for this adjustment is 0 to 9999 with a default value of 720 hours. To enable the feature Select the Check box.

1. **Change Squeeze Tubes:**

This setting sets the run time in days to trigger an alarm to change the squeeze tubes. The pump run time is compared to the last date the squeeze tubes were changed. The default value for this setting is 0. The range for the setting is 0- 365. The default value is 180 days. To enable the feature Select the Check box.

1. **Change Tank Rack:**

This setting sets the number of racks since the last drain/initial fill to trigger a Change Tank Alarm. The default value for this setting is 0. The range for the setting is 0- 999 racks. The default value is 100 racks. To enable the feature Select the Check box.

1. **Low Rinse Temperature:**

This option is used to set the low rinse temperature alarm setting if the Rinse Probe Temp Alarm is enabled, otherwise it will not be displayed. The default value is 150 degrees F. The allowed range is 95-212 degrees F/ 35-100 \*C. To enable the feature Select the Check box. A temperature probe must be installed for this feature to be used.

1. **‘Probe’ Mode Settings:**

Various options are available for configuring the Alarm settings while the Detergent Control Type is Probeless (TIMED).

1. **Tank Probe Faulty:**

Allows user to enable Probe Faulty Alarm. This option is tied to the Conductivity probe faulty condition.

A set of various Parameters can be configured for Conductivity Min, Max, and Faulty Rack count ranges.

This option is used to set the correct operating range of the Conductivity Probe if the Cond Probe Faulty Alarm is enabled, otherwise it will not be displayed. The first screen sets the Minimum value and the second screen sets the Maximum value. Min and Max values default to 10 and 90. The default setting is DISABLE.. The third parameter specifies the number of racks that will be allowed to run with the reading outside the range before the alarm is triggered.

1. **Low Tank Temperature:**

This option is used to set the low tank temperature alarm setting if the Rinse Probe Temp Alarm is enabled, otherwise it will not be displayed. The default value is 150 degrees F. The allowed range is 95-212 degrees F/ 35-100 \*C. To enable the feature Select the Check box. A temperature probe must be installed for this feature to be used.

## ‘Pump Settings’ Page:

[<<Click to load the image>>](images/Pump.png)

This Page allows user to setup various Pump Related settings. A Maximum of 3 Pumps can be configured at a time. There is no option to add / remove pumps from the Pumps list.

**Series options:**

<<click here to load [the](images/img001_Series_Options_Pump.png) image>>

For Ease of use two radio selection buttons are available in the pump settings page to choose the default pump type setting currently being made. User can choose the controller model for default Product type to be populated. Available models are DM63 series and DM62 series. For DM62 series the options will be 2 pumps with P1 – Rinse, P2- Detergent. For DM63 series, the options are 3 Pumps, P1 = rinse, P2 = Detergent, P3- Sanitizer.

1. **Type:**

Select the Pump “Type”. Allowed options are ‘Pump’ or ‘Solenoid’. The installer can set pump types for solenoid or peristaltic by selecting the pump type from the drop down box in this page. Please refer to the installation guide/ manual for further details on what options to choose for the configuration.

1. **Product:**

The installer can set pump products (detergent, rinse, or sanitizer) by selecting set pump product from the pump settings page. For default options please refer the Series options section.

1. **Installed:**

Select if the pump is installed or not. This option is useful in allowing user to enable only few of the pumps.

1. **Custom Name:**

For Easy reference in identifying the product being pumped, the installer can set names for different pumps using this field in the pump setting page.

1. **Cost:**

The Cost option in the pump Settings allow the user to input a product cost associated with each pump. Costs are based on the unit set in the configuration settings page. For US the units may be dollars, cents, and for Europe it may be euros or pounds etc., The maximum limit for costs is 6 digits including the 2 decimal places…

1. **Tube Change Date:**

The Tube Change Date option in the pump settings page allows the user /installer to view, change / modify the tube change date. This date should be kept current. This date is reflected in the reports from the controller.

1. **Calibration:**

Solenoid pumps require a user-entered calibration value for calibrating the true grams /sec. This field in the pump settings page is read only and allows user to view the value for a controller by exporting the settings via SUP File from controller and importing it in the Application.

## ‘System Settings’ Page:

[<<Click to load the image>>](images/system.png)

This page allows the user to set/ modify System setting options based on Probe/ Probeless Types of Detergent Control. The Following various options are available based on the Detergent Control Type (Probe/ Probeless) Modes.

The following options allow the user / installer to customize the controller.

1. **Account:**

The Account name field in the System Settings page allows the installer / user to provide an Account name for the controller. This field can allow a maximum of 15 characters (Alpha Numeric).

1. **Manufacturer Name:**

The Manufacturer name field in the System Settings page allows the installer / user to provide a Manufacturer name for the controller. This field can allow a maximum of 15 characters (Alpha Numeric).

1. **Contact Name:**

The Manufacturer name field in the System Settings page allows the installer / user to provide a Contact name for the controller. This field can allow a maximum of 15 characters (Alpha Numeric).

1. **Electricity Cost / KW:**

Selecting electric cost/KWH from the system setting page allows the installer to calculate the total cost per rack by entering the cost value for one KWH of electricity. The default value is 0, which shows a total electric cost of 0 in the productivity report.

1. **Water Cost / K-Unit:**

Selecting water unit cost from the system settings page allows the installer to calculate the total cost per rack by entering the cost value for 1000 units of water (gallon or Litre). The default value is 0, which shows a total electric cost of 0 in the productivity report.

**Full KW Power Usage:**

Selecting full KW power usage from the system settings page allows the installer to calculate the total cost per rack by entering the number of KW the washer uses when running at full power. The default value is 0, which shows a total electric cost of 0 in the productivity report.

**Idle KW Power Usage:**

Selecting idle KW power usage from the system settings page allows the installer to calculate the total cost per rack by entering the number of KW the washer uses when running at idle power. The default value is 0, which shows a total electric cost of 0 in the productivity report.

1. **Water Volume per wash:**

Selecting water volume/wash from the system settings page allows the installer to calculate the total cost per rack by entering the number of gallons or litres of water used per rack and multiplying this number by the cost of water. The default value is 0, which shows a water volume per wash as zero in the productivity report.

1. **Installation Date:**

The installation date field in the systems setting page allow the user to provide an installation date for the controller in (yyyy-mm-dd) format.

1. **Enable External Solenoid:**

Select external solenoid enable from the settings page to enable the external outputs for controlling one or two solenoids (3-pump model only). This feature is designed for use with a solid rinse dissolver. Please refer to the controller manual for more details

1. **Signal Display Enable:**

Select signal display enable from the system settings page to specify whether the input signals status is displayed on the home screen. The default setting is disabled.

1. **Shift Times:**

The shift times option in the systems setting page allow the installer to specify the shift times and customize them.

1. **Conductivity Maximum Limit:**

The conductivity Maximum limit feature in the Systems setting page allow user to choose a maximum limit for the conductivity limits. Range for this parameter is 5000 – 30000.