



DEMA Engineering Company

Titan II Installation and
Programming Training

Titan II

Premium Warewash Dispenser

- Unique auto switchover mode designed to reduce service calls
 - Automatically switches to probeless mode if the probe fails to function
- Can be set up in 3 different modes - concentration, probeless or auto switchover
- Optional items include
 - Magnetic field sensor
 - Low level / out of product alarm
- Available for 2 or 3 products
- Easy to add 3rd pump if necessary

Titan II

Premium Warewash Dispenser

- Models include
 - Two product – liquid/liquid or liquid/dry
 - Three product –all liquid or liquid/liquid/dry
- 100-260VAC 50/60Hz main power (constant power)
- 24-480VAC trigger signals
- DEMA solenoid for dry detergent control
- Rinse pump output 0.5 oz./min (16ml / min)



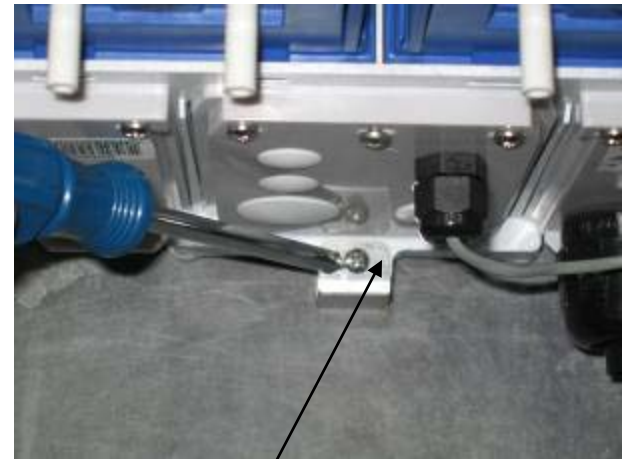
T.812.DL



T.813.DLL

Wall Mounting

- Unpack the Titan
- Remove mounting plate from Titan
- Attach mounting plate to wall
- Install Titan on the mounting plate
- Replace screw

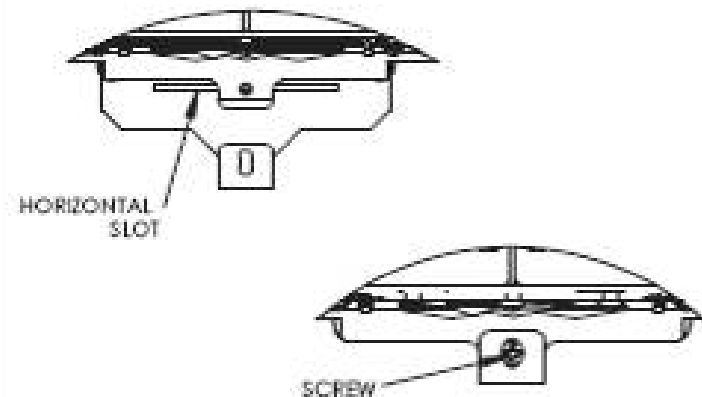


Remove screw and slide plate down

Wall Mounting

- Follow instructions on Mounting Bracket

1. MOUNT BRACKET TO WALL WITH **THIS SIDE OUT**
2. PLACE DISPENSER OVER MOUNTING BRACKET. LINE UP THE BOTTOM OF THE DISPENSER WITH THE HORIZONTAL SLOT AT THE BOTTOM OF BRACKET & PRESS AGAINST THE BRACKET. THE TABS ON THE BACK OF THE DISPENSER SHOULD FIT INTO THE SLOTS ON THE BRACKET.
3. WHILE KEEPING THE DISPENSER PRESSED AGAINST THE BRACKET, GENTLY SLIDE DOWN UNTIL DISPENSER COVERS BRACKET AND IS FULLY SUPPORTED.
4. USE ONE #6-32 X 1/2 S.S. PHILIPS HEAD SCREW TO SECURE DISPENSER TO BRACKET. (SCREW INCLUDED WITH DISPENSER)



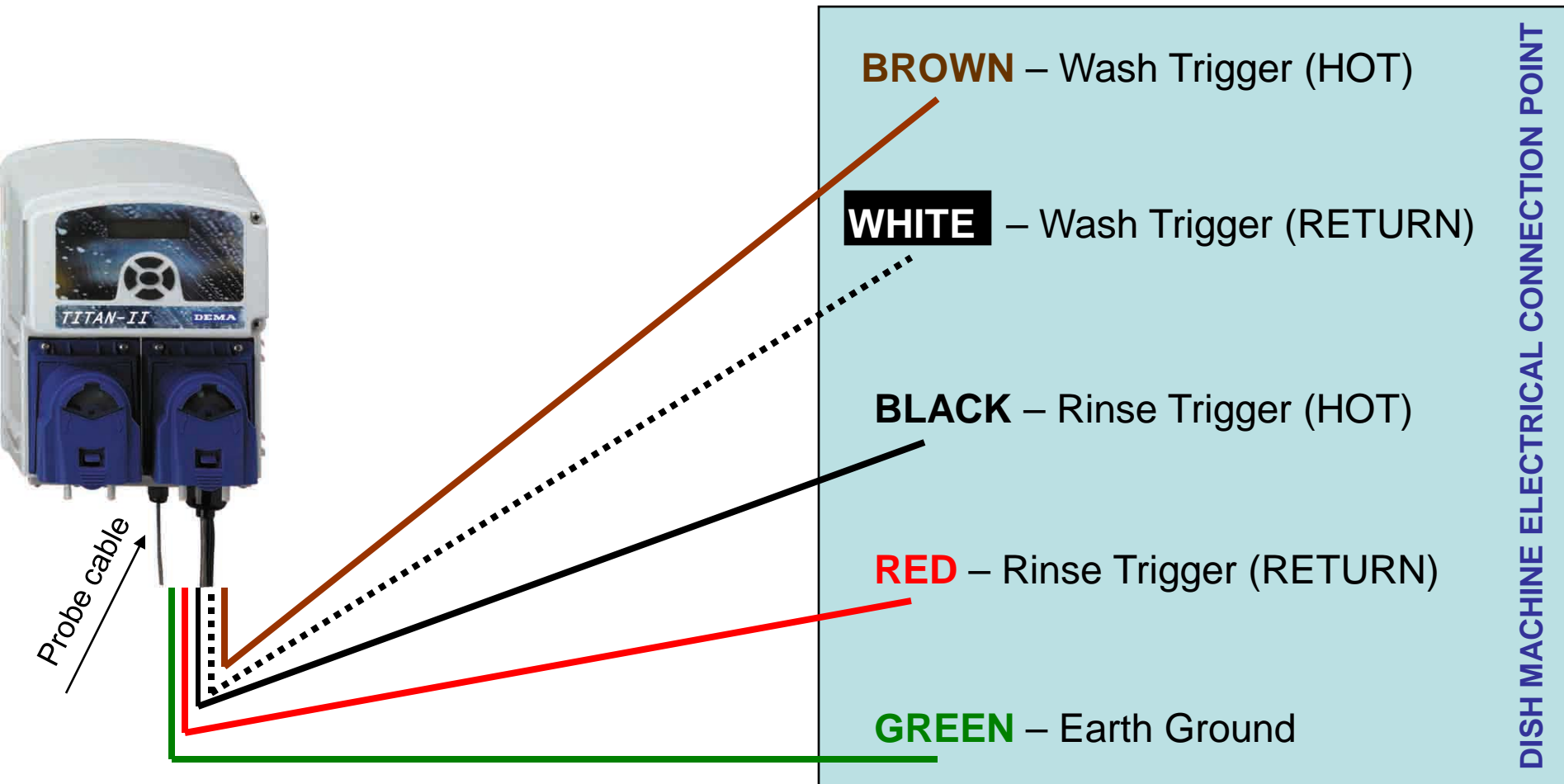
Mounting Considerations

- Choose a location for Titan that's convenient for operation and chemical locations
- Distance from electrical connections for Titan
- Flat vertical surface away from splashing and steam originating from machine
- Titan should be installed in an easily observed and serviceable location

Electrical Connection

- Connect main power and triggers to the dish machine following manufacturers recommendations
- Constant main power should be supplied at 100 - 250VAC
- Connect detergent and rinse triggers to dish machine
 - 24 – 480VAC

Wiring Configuration



WARNING: For safety purposes disconnect main power to the dish machine. Connect power to the Titan per the dish machine manufacturer's recommendations.

UNIT MUST BE GROUNDED (EARTHED).

Installation of Bulkhead Fitting

- Install detergent bulkhead fitting to dish machine wash tank
- Install above the water line in the tank
- Bulkhead fitting should be directly above concentration Probe
- Gasket should be installed externally to the wash tank



Detergent & Plumbing Connections

- Install Viking detergent bowl (see separate instructions)
- From water supply run $\frac{1}{4}$ " OD copper tubing to inlet fitting of Titan detergent valve
- From outlet fitting of Titan detergent valve run $\frac{1}{4}$ " OD copper tubing to inlet of Viking bowl vacuum breaker
- From outlet of Viking bowl run $\frac{9}{16}$ " ID tubing to bulkhead fitting mounted on side of wash tank

Rinse & Sanitizer Connections

- Locate injection points on rinse manifold of dish machine
- Install supplied check valve for rinse and sanitizer
 - Stainless steel check valve for rinse
 - Kynar (plastic) check valve for sanitizer
- Cut the ¼" OD vinyl tubing to length required to reach from the rinse /sanitizer chemicals to the Titan pumps
- Cut vinyl tubing to length required to reach from Titan pumps and rinse/sanitizer check valves



Installation of Conductive Probe

- The Probe should be installed on lower half of the wash tank
- The probe should be installed directly below chemical injection when possible
- Remove electrical ring connectors from probe and crimp conductors of probe cable
- Re-install ring connectors and secure excess probe cable



Typical Titan II Set Up



Titan II Button Functions



Titan II Programming

- Separate sections for auto switchover, probeless, and concentration mode



Idle Screen

- **Idle / Default screen shown when unit is not being programmed**
- Press enter to advance to priming and programming functions
- Unit will return to this screen during programming if long delays are taken during programming
- Idle screen message can be changed in programming



Language Screen

- Press ENTER to modify language
- Use UP & DOWN arrows to select between 4 languages
 - English, Spanish, Portuguese and French
- Press ENTER to select desired language
- Press DOWN arrow to advance to other screens



Detergent Prime

- 1st screen seen after the language screen
 - Press enter to start & stop pump priming
- OR**
- Press DOWN arrow to advance to other screens



Rinse Prime

- Press enter to start & stop pump priming
- OR**
- Press DOWN arrow to advance to other screens



Sanitizer Prime

- Press enter to start & stop pump priming
- OR**
- Press DOWN arrow to advance to other screens




Detergent Information Screen

- DET
 - P = Probeless mode
 - C = Concentration mode
 - + = Active feeding
 - - = Active trigger
- SP
 - Detergent set point in concentration (probe) mode
 - Can be used as low level alarm for probeless mode
- Input
 - Actual probe reading




Detergent Information Screen

- DET Probeless Mode

-  = Initial charge

-  = Top off recharge

-  = Dwell cycle

- DET Concentration Mode

-  = Received trigger & adding product

-  = Received trigger, not adding product



Rack Count

- Displays number of rack counts registered
- Rack counts are generated by rinse length in conveyor mode or machine operations in door mode
- Can be reset in programming mode
- Press DOWN arrow to advance to other screens



Descal

- Allows for a dish machine de-scaling process
- Press enter to disable function of Titan II
- Detergent and rinse will not respond to trigger signals
- Press enter to end de-scale mode (re-activate to full function)



New Program

- Press enter to begin new program



Auto Switchover Mode

- Allows automatic switching from concentration to probeless and back due to typical probe issues
- Proper set up of both concentration and probeless is required for Titan II to function correctly



Auto Switchover Mode

- Press ENTER to modify setting
- Use UP or DOWN arrows to change between auto switchover, concentration and probeless modes
- Press ENTER when auto switchover is displayed
- Press UP or DOWN arrow to advance to other screens



Auto Switchover Mode – Switchover Alarm

- Press ENTER to modify setting
- Use UP or DOWN arrows to change between inactive or active
- Press ENTER when desired mode is displayed
- Press UP or DOWN arrow to advance to other screens



Auto Switchover Mode – Switch Message

- Press ENTER to modify message
- Default message is service dispenser soon
- Up to 16 characters per line and 2 lines
- Press ENTER to modify setting
- Use LEFT & RIGHT arrows to move between characters
- Message can be modified by moving cursor LEFT or RIGHT
- Press ENTER when desired message is displayed
- Press UP or DOWN arrow to advance to other screens



Auto Switchover Mode – Machine Type

- Press ENTER to modify setting
- Use UP or DOWN arrows to change between Conveyor and Door
- Press ENTER when desired machine type is displayed
- Press UP or DOWN arrow to advance to other screens



Auto Switchover Mode – Trigger Mode

- Press ENTER to modify setting
- Use UP or DOWN arrows to change between Detergent/Rinse, Detergent Only or Rinse Only
- Press ENTER when desired mode is displayed
- Press UP or DOWN arrow to advance to other screens



Auto Switchover Mode – Dirty H2O Alarm

- Press ENTER to set to active or inactive
- Sounds alarm to notify wash tank water needs to be changed
- Press UP or DOWN arrow to advance to other screens



Auto Switchover Mode – Dirty Water Time

- Press ENTER to modify time (hrs. min.) until alarm sounds
- Countdown starts with first wash trigger and does not stop or pause
- Use LEFT & RIGHT arrows to move between characters
- Use UP & DOWN arrows to adjust each character
- Press ENTER when desired name is displayed
- Press UP or DOWN arrow to advance to other screens



Auto Switchover Mode – Company Name

- Up to 16 characters
- Press ENTER to modify setting
- Use LEFT & RIGHT arrows to move between characters
- Use UP & DOWN arrows to adjust each character
- Press ENTER when desired name is displayed
- Press UP or DOWN arrow to advance to other screens



Auto Switchover Mode – Alarm Volume

- Sets volume of audible detergent alarm
- Press ENTER to modify setting
- Use UP or DOWN arrows to adjust volume
- Press ENTER when desired volume is reached
- Press UP or DOWN arrow to advance to other screens



Auto Switchover Mode – Concentration Set Point

- Maintains detergent level with concentration probe
- Press ENTER to modify setting
- Use UP & DOWN arrows to adjust concentration set point (DEMA units)
- Press ENTER when desired setting is displayed
- Press UP or DOWN arrow to advance to other screens



Auto Switchover Mode – Feed Rate

- Controls how quickly set point is reached, high feed rate can lead to over shooting
- Press ENTER to modify setting
- Use UP & DOWN arrows to adjust feed rate
- Press ENTER when desired setting is displayed
- Press UP or DOWN arrow to advance to other screens



Auto Switchover Mode – Alarm Delay

- Amount of time before detergent alarm sounds
- Press ENTER to modify setting
- Use UP & DOWN arrows to adjust time setting (minutes / seconds)
- Press ENTER when desired setting is displayed
- Press UP or DOWN arrow to advance to other screens



Auto Switchover Mode – Feed Limit

- Limits the amount of time that the detergent pump will run without reaching set point
- Press ENTER to modify setting
- Use UP & DOWN arrows to adjust feed limit in minutes and seconds
- Press DOWN arrow to advance to alarm delay



Auto Switchover Mode – Recharge Time

- Press ENTER to modify setting
- Use UP & DOWN arrows to adjust time setting (minutes & seconds)
- Press ENTER when desired setting is displayed
- Press UP or DOWN arrow to advance to other screens



Auto Switchover Mode – Dwell Time

- **For conveyor machine type only**
- Press ENTER to modify setting
- Use UP & DOWN arrows to adjust time setting (minutes / seconds)
- Press ENTER when desired setting is displayed
- Press UP or DOWN arrow to advance to other screens



Auto Switchover Mode – Dead Cycles

- **For door machine type only**
- Press ENTER to modify setting
- Use UP & DOWN arrows to adjust number of cycles between recharges
- Press ENTER when desired setting is displayed
- Press UP or DOWN arrow to advance to other screens



Auto Switchover Mode – Initial Charge

- Press ENTER to modify setting
- Use UP & DOWN arrows to adjust time setting (minutes / seconds)
- Press ENTER when desired setting is displayed
- Press UP or DOWN arrow to advance to other screens



Auto Switchover Mode – Charge Clock

- Defines time between trigger signals for an initial charge
- Press ENTER to modify setting
- Use UP & DOWN arrows to adjust time setting (hours / minutes)
- Press ENTER when desired setting is displayed
- Press UP or DOWN arrow to advance to other screens



Auto Switchover Mode – Rinse Speed

- Adjust rinse pump speed
- Press ENTER to modify setting
- Use UP & DOWN arrows to adjust rinse speed
- Press ENTER when desired speed is displayed
- Press UP or DOWN arrow to advance to other screens



Auto Switchover Mode – Rinse Length

- **For conveyor machine type only**
- Rinse length should match the amount of rinse time per rack
- Allows Titan II to count racks on a conveyor machine
- Use UP & DOWN arrows to adjust rinse length
- Press ENTER when desired length is displayed
- Press UP or DOWN arrow to advance to other screens



Auto Switchover Mode – Rinse Delay

- **For door machine only**
 - Adjust delay time to start rinse pump
- Press ENTER to modify setting
- Use UP & DOWN arrows to adjust rinse delay
- Press ENTER when desired rinse delay is displayed
- Press UP or DOWN arrow to advance to other screens



Auto Switchover Mode – Rinse Limit

- **For door machine only**
- Sets maximum rinse pump run time
- Press ENTER to modify setting
- Use UP & DOWN arrows to adjust rinse limit (seconds)
- Press ENTER when desired rinse limit is displayed
- Press UP or DOWN arrow to advance to other screens



Auto Switchover Mode – Sanitizer Speed

- Adjust sanitizer pump speed
- Press ENTER to modify setting
- Use UP & DOWN arrows to adjust sanitizer speed
- Press ENTER when desired speed is displayed
- Press UP or DOWN arrow to advance to other screens



Auto Switchover Mode – Sanitizer Mode

- Press ENTER to modify setting
- Use UP or DOWN arrows to change between Run with Rinse or Run with Detergent
- Press ENTER when desired mode is displayed
- Press UP or DOWN arrow to advance to other screens



Auto Switchover Mode – Enter New Code

- Sets programming password (4 numbers)
- Press ENTER to modify setting
- Use LEFT & RIGHT arrows to move between numbers
- Use UP & DOWN arrows to adjust each number
- Press ENTER when desired code is displayed
- Press LEFT arrow to confirm setting
- Press UP or DOWN arrow to advance to other screens



Auto Switchover Mode – End Programming

- Press enter to exit programming



Probeless Mode Programming

- Start of probeless programming
- Section for dedicated probeless dispenser set up



Probeless Mode

- Press ENTER to modify setting
- Use UP or DOWN arrows to change between modes
- Press ENTER when auto switchover is displayed
- Press UP or DOWN arrow to advance to other screens



Probeless Mode - Machine Type

- Press ENTER to modify setting
- Use UP or DOWN arrows to change between Conveyor and Door
- Press ENTER when desired machine type is displayed
- Press UP or DOWN arrow to advance to other screens



Probeless Mode – Trigger Mode

- Press ENTER to modify setting
- Use UP or DOWN arrows to change between Detergent/Rinse, Detergent Only or Rinse Only
- Press ENTER when desired mode is displayed
- Press UP or DOWN arrow to advance to other screens



Probeless Mode – Dirty H2O Alarm

- Press ENTER to set to active or inactive
- Sounds alarm to notify wash tank water needs to be changed
- Press UP or DOWN arrow to advance to other screens



Probeless Mode – Dirty Water Time

- Press ENTER to modify time (hrs. min.) until alarm sounds
- Countdown starts with first wash trigger and does not stop or pause
- Use LEFT & RIGHT arrows to move between characters
- Use UP & DOWN arrows to at adjust each character
- Press ENTER when desired name is displayed
- Press UP or DOWN arrow to advance to other screens



Probeless Mode – Company Name

- Up to 16 characters
- Press ENTER to modify setting
- Use LEFT & RIGHT arrows to move between characters
- Use UP & DOWN arrows to adjust each character
- Press ENTER when desired name is displayed
- Press UP or DOWN arrow to advance to other screens



Probeless Mode – Alarm Volume

- Sets volume of audible detergent alarm
- Press ENTER to modify setting
- Use UP or DOWN arrows to adjust volume
- Press ENTER when desired volume is reached
- Press UP or DOWN arrow to advance to other screens



Probeless Mode – Recharge Time

- Press ENTER to modify setting
- Use UP & DOWN arrows to adjust time setting (minutes & seconds)
- Press ENTER when desired setting is displayed
- Press UP or DOWN arrow to advance to other screens



Probeless Mode – Dwell Time

- **For conveyor machine type only**
- Press ENTER to modify setting
- Use UP & DOWN arrows to adjust time setting (minutes / seconds)
- Press ENTER when desired setting is displayed
- Press UP or DOWN arrow to advance to other screens



Probeless Mode – Dead Cycles

- **For door machine type only**
- Press ENTER to modify setting
- Use UP & DOWN arrows to adjust number of cycles between recharges
- Press ENTER when desired setting is displayed
- Press UP or DOWN arrow to advance to other screens



Probeless Mode – Initial Charge

- Press ENTER to modify setting
- Use UP & DOWN arrows to adjust time setting (minutes / seconds)
- Press ENTER when desired setting is displayed
- Press UP or DOWN arrow to advance to other screens



Probeless Mode – Charge Clock

- Defines time between trigger signals for an initial charge
- Press ENTER to modify setting
- Use UP & DOWN arrows to adjust time setting (hours / minutes)
- Press ENTER when desired setting is displayed
- Press UP or DOWN arrow to advance to other screens



Probeless Mode – Detergent Alarm

- Press ENTER to set to active or inactive
- Sounds alarm to notify out of detergent condition
- Press UP or DOWN arrow to advance to other screens



Probeless Mode – Detergent Type

- Use manual when alarm option with probe is used
- Press ENTER to set to Manual
- Press UP or DOWN arrow to advance to other screens



Probeless Mode – Alarm Set Point

- Press ENTER to modify alarm set point
- Alarm set point is a probe reading to alarm a low detergent condition
- Alarm set point should be approx. half the difference between a clean and a properly titrated tank of water
 - EG: Clean = 125, titrate = 375, proper set point = 250
- Press UP or DOWN arrow to advance to other screens



Probeless Mode – Rinse Speed

- Adjust rinse pump speed
- Press ENTER to modify setting
- Use UP & DOWN arrows to adjust rinse speed
- Press ENTER when desired speed is displayed
- Press UP or DOWN arrow to advance to other screens



Probeless Mode – Rinse Delay

- **For door machine only**
- Adjust delay time to start rinse pump
- Press ENTER to modify setting
- Use UP & DOWN arrows to adjust rinse delay
- Press ENTER when desired rinse delay is displayed
- Press UP or DOWN arrow to advance to other screens



Probeless Mode – Rinse Length

- **Used to count racks in conveyor mode OR can be used to call for initial charge in door mode**
- Rinse length should match the amount of rinse time per rack
- Use UP & DOWN arrows to adjust rinse length
- Press ENTER when desired length is displayed
- Press UP or DOWN arrow to advance to other screens



Probeless Mode – Rinse Limit

- **For door machine only**
- Sets maximum rinse pump run time
- Press ENTER to modify setting
- Use UP & DOWN arrows to adjust rinse limit (seconds)
- Press ENTER when desired rinse limit is displayed
- Press UP or DOWN arrow to advance to other screens



Probeless Mode – Sanitizer Speed

- Adjust sanitizer pump speed
- Press ENTER to modify setting
- Use UP & DOWN arrows to adjust sanitizer speed
- Press ENTER when desired speed is displayed
- Press UP or DOWN arrow to advance to other screens



Probeless Mode – Sanitizer Mode

- Press ENTER to modify setting
- Use UP or DOWN arrows to change between Run with Rinse or Run with Detergent
- Press ENTER when desired mode is displayed
- Press UP or DOWN arrow to advance to other screens



Probeless Mode – Enter New Code

- Sets programming password (4 numbers)
- Press ENTER to modify setting
- Use LEFT & RIGHT arrows to move between numbers
- Use UP & DOWN arrows to adjust each number
- Press ENTER when desired code is displayed
- Press LEFT arrow to confirm setting
- Press UP or DOWN arrow to advance to other screens



Probeless Mode – End Programming

- Press enter to exit programming



Concentration Mode Programming

- Start of concentration programming
- Section for a dedicated concentration (probe) machine set up



Concentration Mode – Detergent Control Mode

- Press ENTER to modify setting
- Use UP or DOWN arrows to change between modes
- Press ENTER when auto switchover is displayed
- Press UP or DOWN arrow to advance to other screens



Concentration Mode - Machine Type

- Press ENTER to modify setting
- Use UP or DOWN arrows to change between Conveyor and Door
- Press ENTER when desired machine type is displayed
- Press UP or DOWN arrow to advance to other screens



Concentration Mode – Trigger Mode

- Press ENTER to modify setting
- Use UP or DOWN arrows to change between Detergent/Rinse, Detergent Only or Rinse Only
- Press ENTER when desired mode is displayed
- Press UP or DOWN arrow to advance to other screens



Concentration Mode – Dirty H2O Alarm

- Press ENTER to set to active or inactive
- Sounds alarm to notify wash tank water needs to be changed
- Press UP or DOWN arrow to advance to other screens



Concentration Mode – Dirty Water Time

- Press ENTER to modify time (hrs. min) until alarm sounds
- Countdown starts with first wash trigger and does not stop or pause
- Use LEFT & RIGHT arrows to move between characters
- Use UP & DOWN arrows to at adjust each character
- Press ENTER when desired name is displayed
- Press UP or DOWN arrow to advance to other screens



Concentration Mode – Company Name

- Up to 16 characters
- Press ENTER to modify setting
- Use LEFT & RIGHT arrows to move between characters
- Use UP & DOWN arrows to adjust each character
- Press ENTER when desired name is displayed
- Press UP or DOWN arrow to advance to other screens



Concentration Mode – Alarm Volume

- Sets volume of audible detergent alarm
- Press ENTER to modify setting
- Use UP or DOWN arrows to adjust volume
- Press ENTER when desired volume is reached
- Press UP or DOWN arrow to advance to other screens



Concentration Mode – Concentration Set Point

- Maintains detergent level with concentration probe
- Press ENTER to modify setting
- Use UP & DOWN arrows to adjust concentration set point (DEMA units)
- Press ENTER when desired setting is displayed
- Press UP or DOWN arrow to advance to other screens



Concentration Mode – Feed Rate

- Controls how quickly set point is reached, high feed rate can lead to over shooting
- Press ENTER to modify setting
- Use UP & DOWN arrows to adjust feed rate
- Press ENTER when desired setting is displayed
- Press UP or DOWN arrow to advance to other screens



Concentration Mode – Alarm Delay

- Amount of time before detergent alarm sounds
- Press ENTER to modify setting
- Use UP & DOWN arrows to adjust time setting (minutes / seconds)
- Press ENTER when desired setting is displayed
- Press UP or DOWN arrow to advance to other screens



Concentration Mode – Feed Limit

- Limits the amount of time that the detergent pump will run without reaching set point
- Press ENTER to modify setting
- Use UP & DOWN arrows to adjust feed limit in minutes and seconds
- Press DOWN arrow to advance to alarm delay



Concentration Mode – Rinse Speed

- Adjust rinse pump speed
- Press ENTER to modify setting
- Use UP & DOWN arrows to adjust rinse speed
- Press ENTER when desired speed is displayed
- Press UP or DOWN arrow to advance to other screens



Concentration Mode – Rinse Length

- **For conveyor machine type only**
- Rinse length should match the amount of rinse time per rack
- Allows Titan II to count racks on a conveyor machine
- Use UP & DOWN arrows to adjust rinse length
- Press ENTER when desired length is displayed
- Press UP or DOWN arrow to advance to other screens



Concentration Mode – Rinse Delay

- **For door machine only**
- Adjust delay time to start rinse pump
- Press ENTER to modify setting
- Use UP & DOWN arrows to adjust rinse delay
- Press ENTER when desired rinse delay is displayed
- Press UP or DOWN arrow to advance to other screens



Concentration Mode – Rinse Limit

- **For door machine only**
- Sets maximum rinse pump run time
- Press ENTER to modify setting
- Use UP & DOWN arrows to adjust rinse limit (seconds)
- Press ENTER when desired rinse limit is displayed
- Press UP or DOWN arrow to advance to other screens



Concentration Mode – Sanitizer Speed

- Adjust sanitizer pump speed
- Press ENTER to modify setting
- Use UP & DOWN arrows to adjust sanitizer speed
- Press ENTER when desired speed is displayed
- Press UP or DOWN arrow to advance to other screens



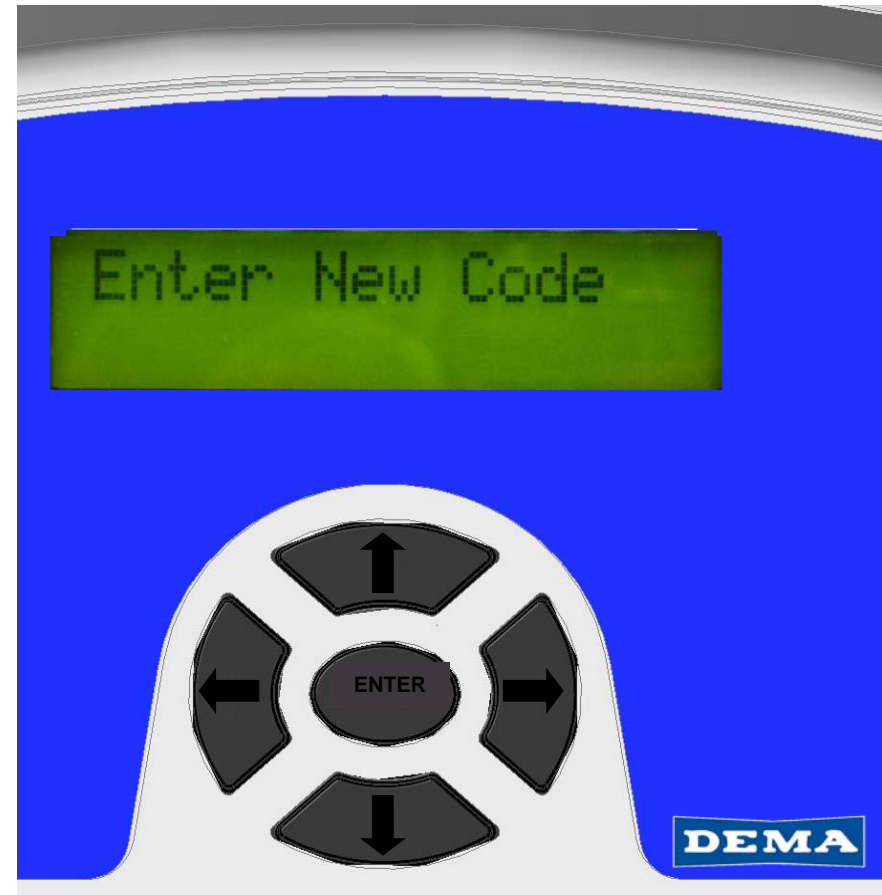
Concentration Mode – Sanitizer Mode

- Press ENTER to modify setting
- Use UP or DOWN arrows to change between Run with Rinse or Run with Detergent
- Press ENTER when desired mode is displayed
- Press UP or DOWN arrow to advance to other screens



Concentration Mode – Enter New Code

- Sets programming password (4 numbers)
- Press ENTER to modify setting
- Use LEFT & RIGHT arrows to move between numbers
- Use UP & DOWN arrows to adjust each number
- Press ENTER when desired code is displayed
- Press LEFT arrow to confirm setting
- Press UP or DOWN arrow to advance to other screens



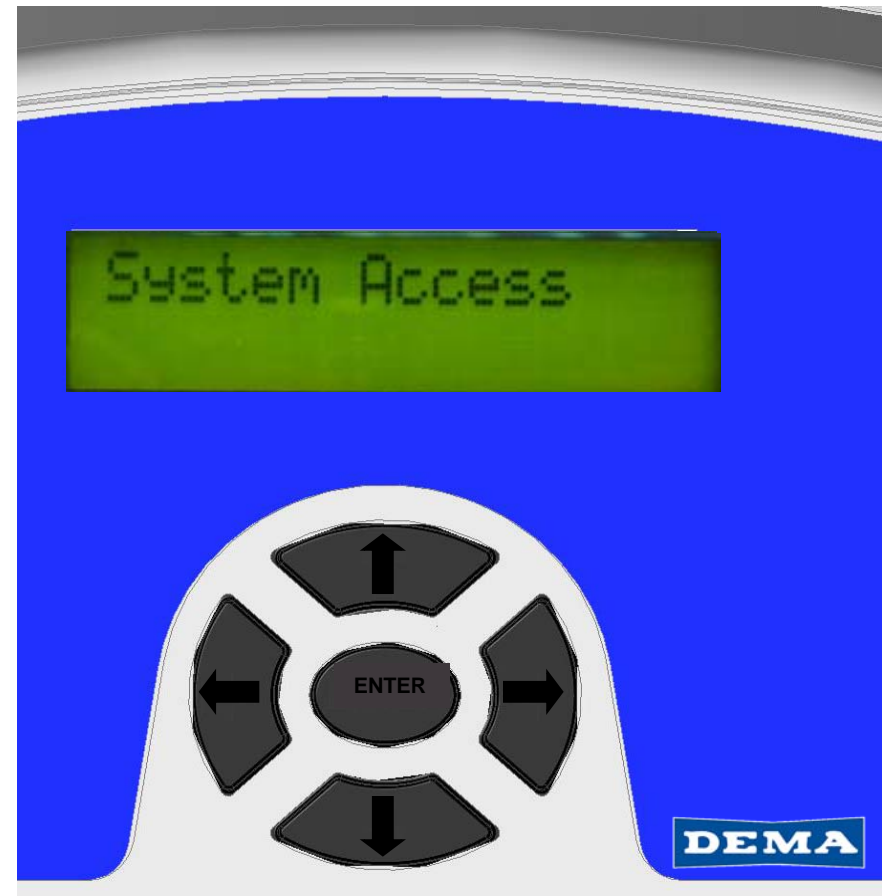
Concentration Mode – End Programming

- Press ENTER to exit programming



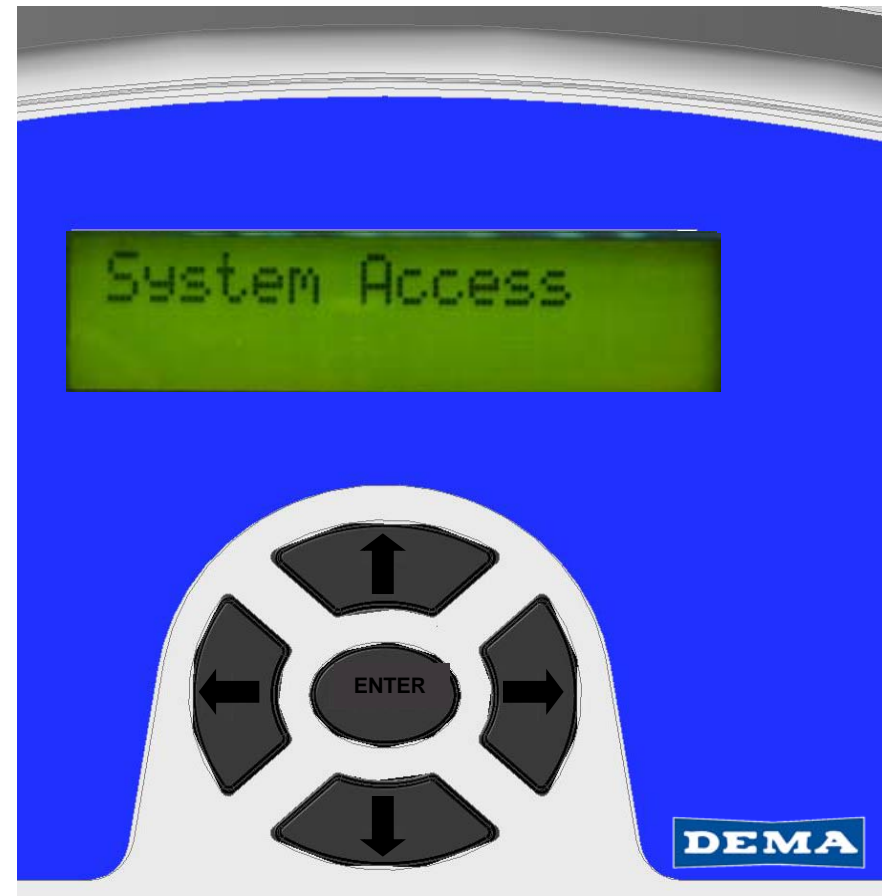
System Access - Editing Existing Programming

- The following outlines the order of the programming features when changing an existing Titan II program
- Order of programming screens changes from a new system but all screens/features are available to be changed



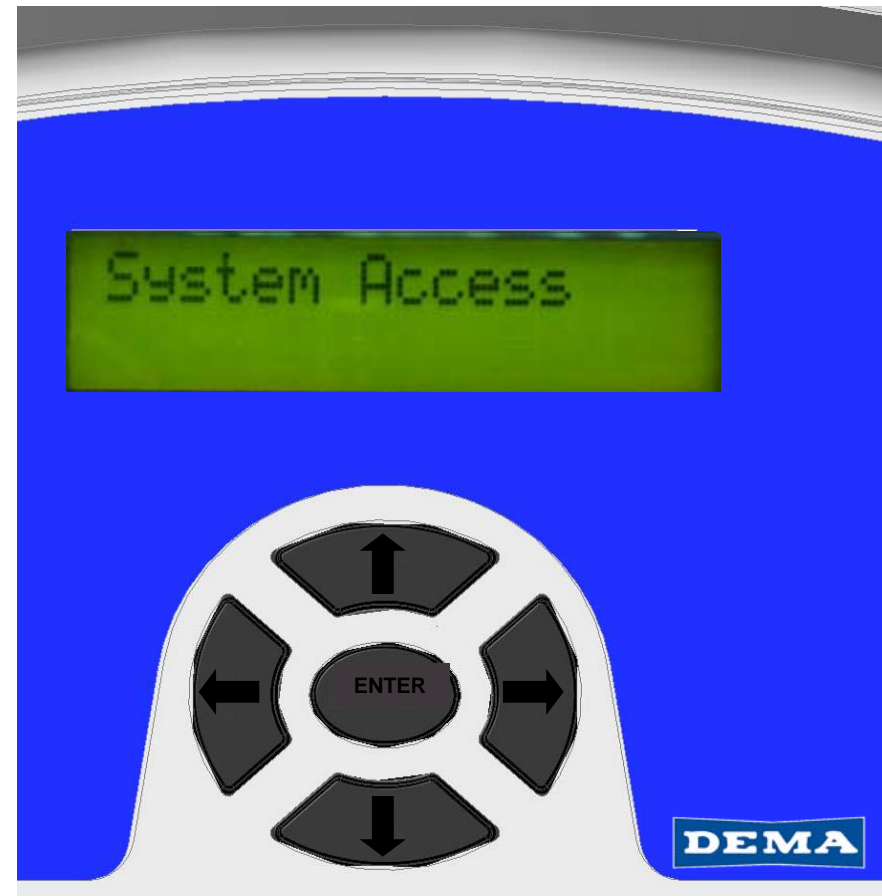
System Access

- Allows editing of existing programming
- Press ENTER to begin editing



System Access

- Allows editing of the following
- Dispenser set up parameters
 - Concentration parameters
 - Probeless parameters
 - Rinse control parameters
 - Sanitizer set up parameters
 - Diagnostic mode
- Press ENTER to gain access



Dispenser Set Up Parameters

- Press ENTER to access set up parameters
- Use the DOWN arrow to scroll through
 - Rack count - Control mode
 - Machine type - Trigger mode
 - Dirty H2O alarm - Dirty water time - Company name - Alarm volume - Enter new code
- Press ENTER when desired feature is displayed for editing
- Use return to system access screen or LEFT arrow to return to master menu



Rack Count and Reset

- Displays number of rack counts registered
- Rack counts are generated by rinse length in conveyor mode or machine operations in door mode
- Press ENTER to reset and LEFT arrow to confirm



Concentration Parameters

- Press ENTER to access concentration parameters
- Use the DOWN arrow to scroll through
 - Concentration set point – Feed rate – Alarm delay – Feed limit
- Press ENTER when desired feature is displayed for editing
- Use return to system access screen or LEFT arrow to return to master menu



Probeless Parameters

- Press ENTER to access probeless parameters
- Use the DOWN arrow to scroll through
 - Recharge time - Dead cycles/Dwell time - Initial charge - Charge clock - Detergent alarm - Detergent type
- Press ENTER when desired feature is displayed for editing
- Use return to system access screen or LEFT arrow to return to master menu



Rinse Control Parameters

- Press ENTER to access rinse control parameters
- Use the DOWN arrow to scroll through
 - Door: Rinse speed - Rinse delay - Rinse limit – Rinse length (Probeless only)
 - Conveyor: Rinse speed -Rinse length
- Press ENTER when desired feature is displayed for editing
- Use return to system access screen or LEFT arrow to return to master menu



Sanitizer Set Up Parameters

- Press ENTER to access sanitizer set up parameters
- Use the DOWN arrow to scroll through
 - Sanitizer speed - Sanitizer mode
- Press ENTER when desired feature is displayed for editing
- Use return to system access screen or LEFT arrow to return to master menu



Diagnostic Mode

- Press ENTER to gain access to diagnostic mode
- Use the DOWN arrow to view the following screens
 - Detergent mode and input screen
 - The over feed switch screen
 - The open and short screen
- Use return to system access screen or LEFT arrow to return to master menu




Detergent Information Screen

- DET
 - P = Probeless mode
 - C = Concentration mode
 - + = Active feeding
 - - = Active trigger
- SP
 - Detergent set point in concentration (probe) mode
 - Can be used as low level alarm for probeless mode
- Input
 - Actual probe reading



Detergent Information Screen


- DET Probeless Mode

-  = Initial charge

-  = Top off recharge

-  = Dwell cycle

- DET Concentration Mode

-  = Received trigger & adding product

-  = Received trigger, not adding product



Over Feed Switch

- Displays the occurrence of auto switch overs to probeless due to concentration mode unable to climb to set point
- Press ENTER to reset and LEFT arrow to confirm



Probe Open and Short

- Displays the occurrence of both open and short probe conditions
- Press ENTER to reset and LEFT arrow to confirm



End Programming

- Press ENTER to exit programming

