



Nitro Existing Program Training

December 1, 2009

NITRO

THE COMPACT MULTI-FEATURE WAREWASH DISPENSER

Nitro bridges the gap between compact basic dispensers and large dispensers with multi-features but too bulky for smaller kitchen environments

- Probe or probeless operation from the same unit
- Pre-wired power supply
- Password protected digital programming
- Multi-lingual display
- Quick change pump cover
- Optional magnetic field reader and inductive probe



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Nitro Features

- 100-260VAC 50/60Hz main power (constant power)
- 24-480VAC trigger signals
- Detergent pump output 6 oz./min (180ml / min)
- Rinse pump output 1.3 oz./min (40ml / min)



Nitro Button Functions

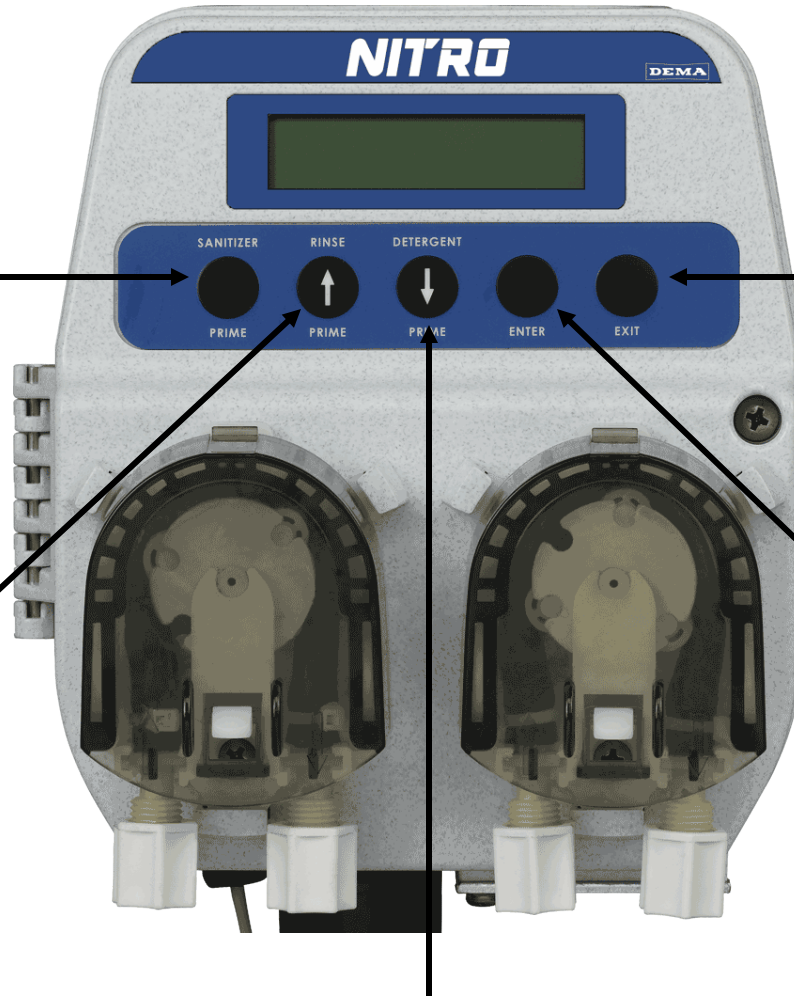
SANITIZER PRIME button primes sanitizer and moves cursor left in programming

Rinse Prime / UP arrow primes rinse and increases value or moves cursor up

Det. Prime / DOWN arrow primes detergent and decreases value or moves cursor down

EXIT button exits the programming and moves cursor right in programming

ENTER button enters programming and accepts values entered



Idle Screen & Priming

- Idle / Default screen shown when unit is not being programmed
- Unit will return to this screen during long periods of no button activity
- Press and hold any prime button to prime each pump



Language Screen- English

- 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 for Rack Count screen



Rack Count

- Displays number of rack counts registered
- Rack counts are generated by rinse length in conveyor mode or machine operations in door mode
- Press DOWN arrow for Information screen



Information Screen

- Displays the following information
- DET
 - P = Probeless mode
 - C = Concentration mode
- SP
 - Not applicable for probeless mode
 - Detergent set point in concentration mode
- Input
 - Actual probe reading
- Press DOWN arrow for new program



System Access Screen

- Allows program and setup features to be modified
- Press ENTER to gain access
- Note: The training covers Concentration mode 1st followed by Probeless mode



Enter Code – Concentration Mode

- Enter code to gain access
- Use SANITIZER button to move cursor left and EXIT button to move cursor right
- Use UP & DOWN arrows to change digit in each position
- Press ENTER when access code is displayed



Concentration Mode – Concentration Set Point

- Press ENTER to modify setting
- Use UP & DOWN arrows to adjust concentration set point
- Press ENTER when desired setting is displayed
- Press DOWN arrow to advance to feed rate



Concentration Mode – Feed Rate

- Controls how quickly set point is reached, high feed rate can lead to overshooting – 5 is a good starting point
- Press ENTER to modify setting
- Use UP & DOWN arrows to adjust feed rate
- Press ENTER when desired setting is displayed
- Press DOWN arrow to advance to feed limit



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 - 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 DOWN arrow to advance to alarm volume



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 DOWN arrow to advance to rinse speed



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 DOWN arrow to advance to rinse length



Concentration Mode - Rinse Length

- Rinse length should match the amount of rinse time per rack
- Allows Nitro to count racks on a conveyor machine
- Use UP & DOWN arrows to adjust rinse length
- Press ENTER when desired length is displayed
- Press DOWN arrow to advance to sanitizer speed



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 DOWN arrow to advance to company name



Concentration Mode – Detergent Control Mode

- Press ENTER to modify setting
- Use UP or DOWN arrows to change between probeless or concentration
- Press ENTER when concentration is displayed
- Press DOWN arrow to advance to machine type



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 DOWN arrow to advance to trigger mode



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 DOWN arrow to advance to concentration set point



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 DOWN arrow to advance to rack count



Concentration Mode - Rack Count

- Displays number of rack counts registered
- Rack counts are generated by rinse length in conveyor mode or machine operations in door mode
- Press DOWN arrow to advance to enter code



Concentration Mode - Enter New Code

- Press ENTER to change code or
- Press UP or DOWN arrows to move to other screens or
- Press EXIT to leave programming mode



Concentration Mode - Enter Code

- Access Code gains access to system programming setup.
- Use SANITIZER button to move cursor left and EXIT button to move cursor right
- Use UP & DOWN arrows to change digit in each position
- Press ENTER when access code is displayed



Concentration Mode - Accept Program Code

- Press EXIT to accept new access code
- Press any other button to reject new access code



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- Press EXIT to leave programming mode or use UP & DOWN arrows to navigate to other screens to make changes



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Enter Code – Probeless Mode

- Enter code to gain access
- Use SANITIZER button to move cursor left and EXIT button to move cursor right
- Use UP & DOWN arrows to change digit in each position
- Press ENTER when access code is displayed



Probeless Mode - Recharge Time

- The “top off” or subsequent detergent feeds after initial new tank detergent feed
- Press ENTER to modify setting
- Use UP & DOWN arrows to adjust time setting (minutes & seconds)
- Press ENTER when desired setting is displayed
- Press DOWN arrow to advance to dwell time (conveyor mode) or dead cycles (door mode)



Probeless Mode - Dwell Time

- **For conveyor machine type only**
- Amount of time between initial and subsequent recharges
- Press ENTER to modify setting
- Use UP & DOWN arrows to adjust time setting (minutes / seconds)
- Press ENTER when desired setting is displayed
- Press DOWN arrow to advance to initial charge



Probeless Mode -Dead Cycles

- **For door machine type only**
- The number of machine operations that will not get a subsequent recharge
- Press ENTER to modify setting
- Use UP & DOWN arrows to adjust number of cycles between recharges
- Press ENTER when desired setting is displayed
- Press DOWN arrow to advance to initial charge



Probeless Mode -Initial Charge

- The time the detergent will dispenser for a new tank of water
- Press ENTER to modify setting
- Use UP & DOWN arrows to adjust time setting (minutes / seconds)
- Press ENTER when desired setting is displayed
- Press DOWN arrow to advance to charge clock (conveyor mode) or charge activate (door mode)



Probeless Mode - Charge Clock

- **For conveyor machine type only**
- 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 DOWN arrow to advance to rinse speed



Probeless Mode –Charge Activate

- **For door machine type only**
- Allows the dispenser to recognize machine fill versus rinse cycle
- Trigger mode must be set to “Rinse Only”
- Press ENTER to modify setting
- Use UP & DOWN arrows to adjust time setting
- Press ENTER when desired seconds are displayed
- Setting must be greater than normal rinse cycle time
- Press DOWN arrow to advance to rinse speed



Probeless Mode - Rinse Speed

- Press ENTER to modify setting
- Use UP & DOWN arrows to adjust rinse speed
- Press ENTER when desired speed is displayed
- Press DOWN arrow to advance to rinse length (conveyor mode) or sanitizer speed (door mode)



Probeless Mode - Rinse Length

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



Probeless Mode - Sanitizer Speed

- Press ENTER to modify setting
- Use UP & DOWN arrows to adjust sanitizer speed
- Press ENTER when desired speed is displayed
- Press DOWN arrow to advance to company name



Probeless Mode – Detergent Control Mode

- Press ENTER to modify setting
- Use UP or DOWN arrows to change between probeless or concentration
- Press ENTER when desired mode is displayed
- Press DOWN arrow to advance to machine type



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 DOWN arrow to advance to trigger mode



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 DOWN arrow to advance to recharge time



Probeless Mode – Company Name

- Can be 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 DOWN arrow to advance to rack count



Probeless Mode - Rack Count

- Displays number of rack counts registered
- Rack counts are generated by rinse length in conveyor mode or machine operations in door mode
- Press DOWN arrow to advance to enter code



Probeless Mode - Enter New Code

- Press ENTER to change code or
- Press UP or DOWN arrows to move to other screens or
- Press EXIT to leave programming mode



Probeless Mode - Enter Code

- Access Code gains access to system programming setup.
- Use SANITIZER button to move cursor left and EXIT button to move cursor right
- Use UP & DOWN arrows to change digit in each position
- Press ENTER when access code is displayed



Probeless Mode - Accept Program Code

- Press EXIT to accept new access code
- Press any other button to reject new access code



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