



# 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

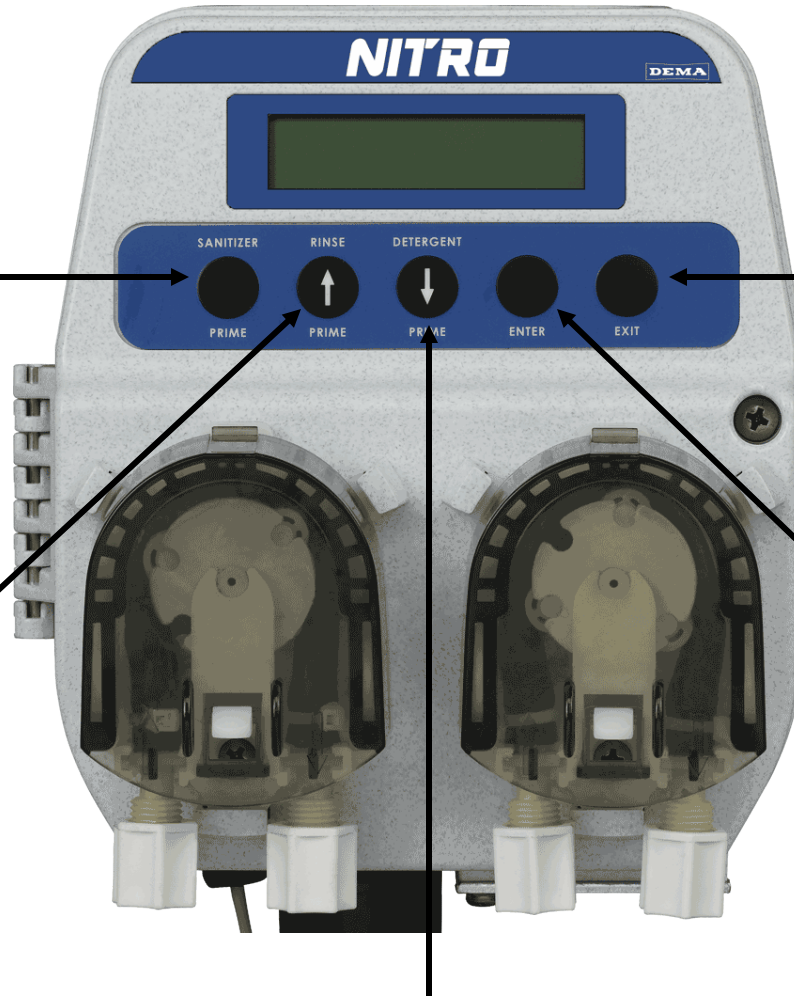
**SANITIZER PRIME** button primes sanitizer and moves cursor left in programming

**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 1<sup>st</sup> 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
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