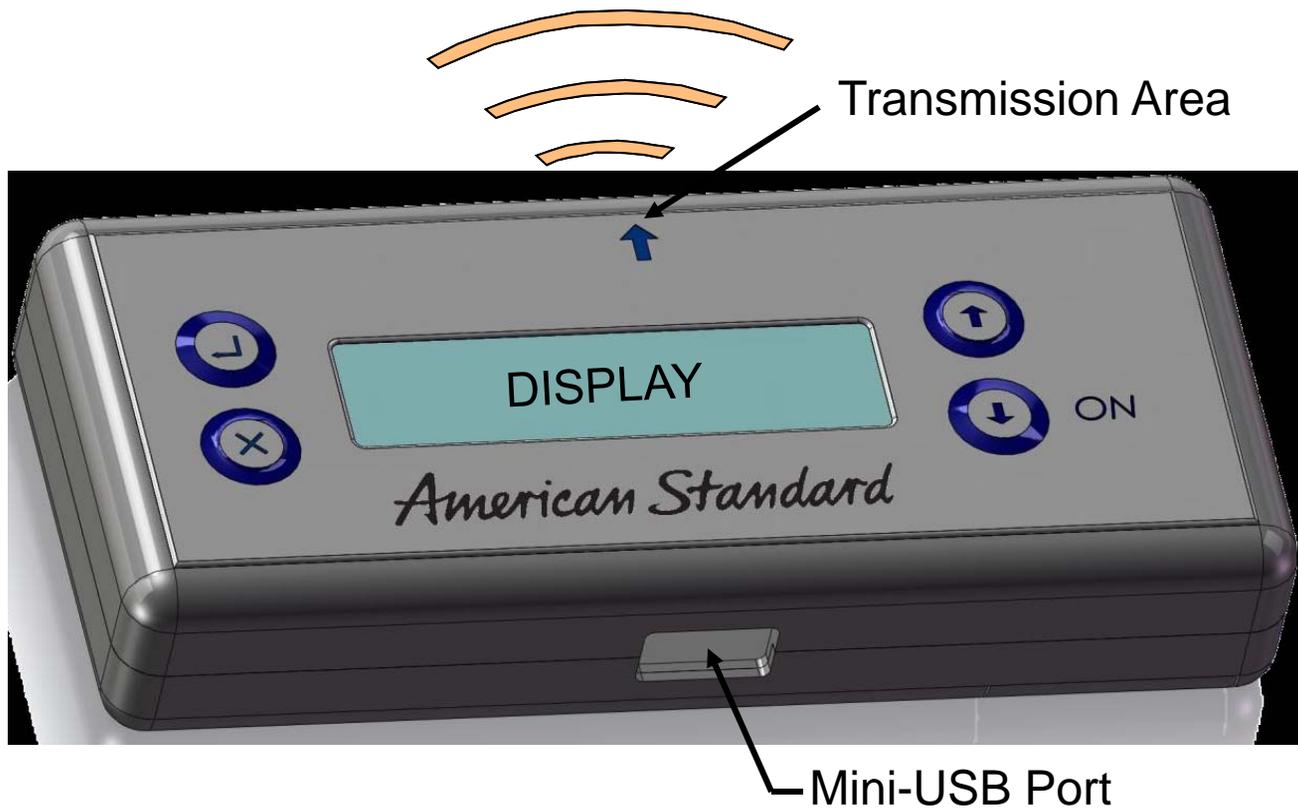


American Standard

Selectronic 605XRCT Remote Control Operation Manual



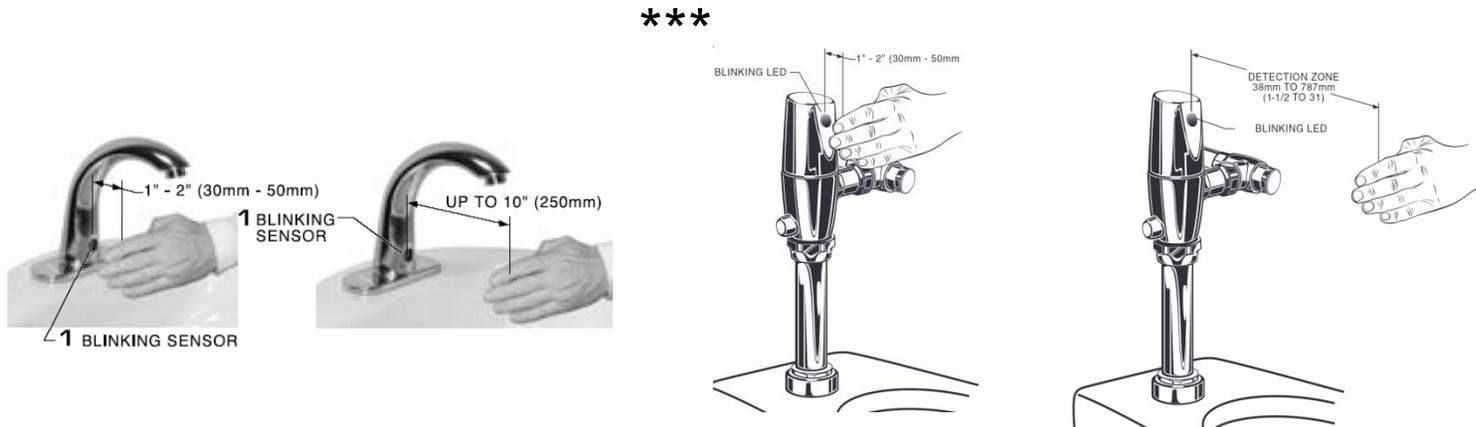
OPERATION: The remote programmer has 4 keys:

- ⏏ “Enter” or validate
- ⌫ “Cancel”
- ⬆ “Scroll UP”
- ⬇ “Scroll Down”

The ‘Down’ Key is also used to turn “ON” the remote programmer. After not being used for 2 minutes, the programmer automatically turns itself off.

Adjusting The Range (Detection Distance)

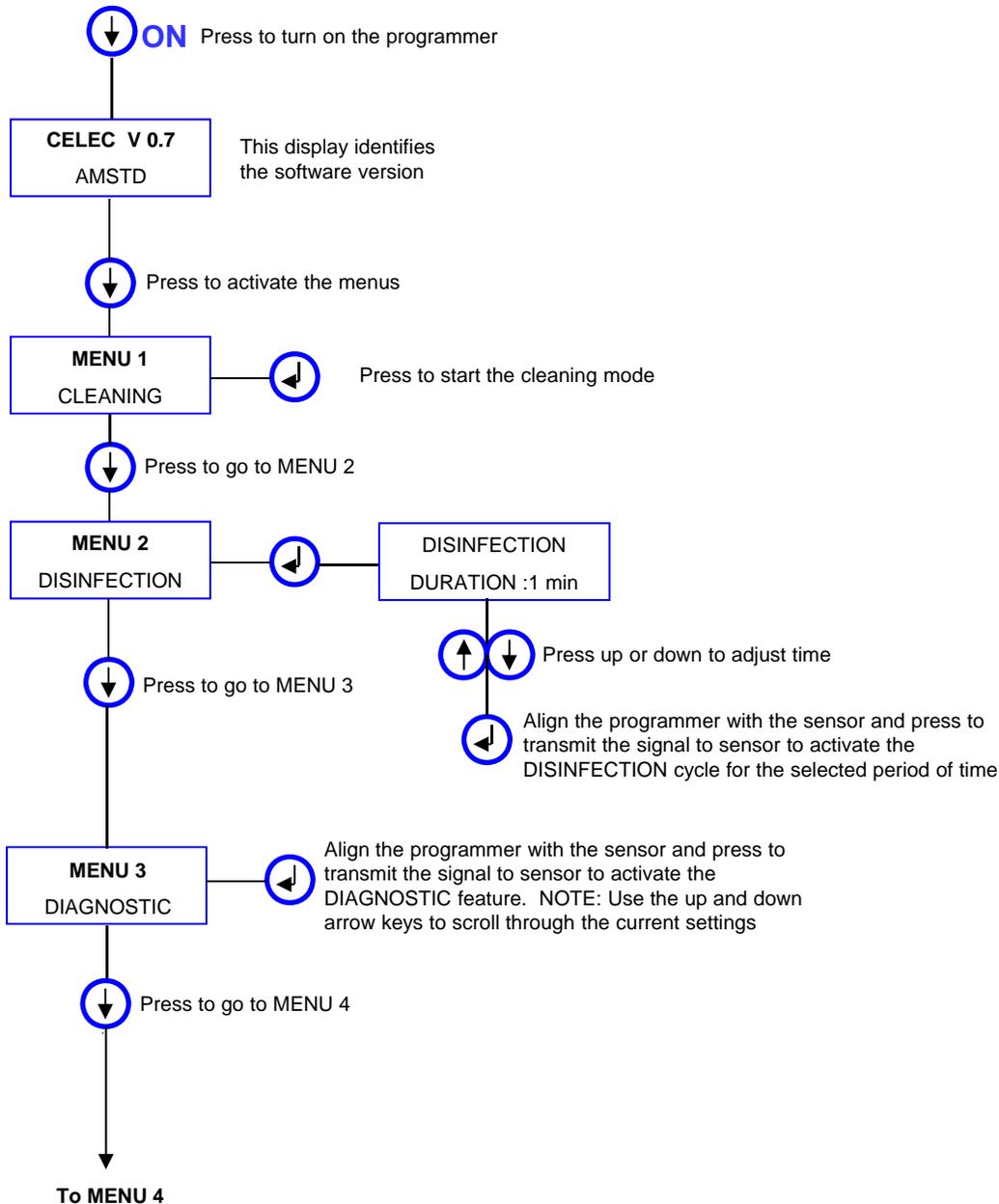
*** ONLY DONE AFTER SELECTING ALL OTHER MODE SETTINGS



When using the programmer, the sensor will begin blinking for approximately 5 seconds after the “enter” key is pressed and the display shows “TRANSMISSION OK”. **While it is blinking** move your finger to within 1 inch of the sensor (nearly covering it). When the light stops blinking and stays on steady, remove your finger and, with the palm of your hand facing the sensor, move your hand to the distance to be set. When the sensor starts to blink again, move your hand away from the detection area. The flashing will stop and the sensor will now be programmed with the new range setting.

The Programmer will now display *BACKUP FUNCTION*. You can program the next sensor(s) with the same modes and functions by pointing the programmer at the sensor and pressing the “enter” key. The programmer will remember the programmed settings (other than the manually set range/distance) for approximately 3.5 minutes before turning off.

NOTE: See “Product Settings & Specifications Chart”

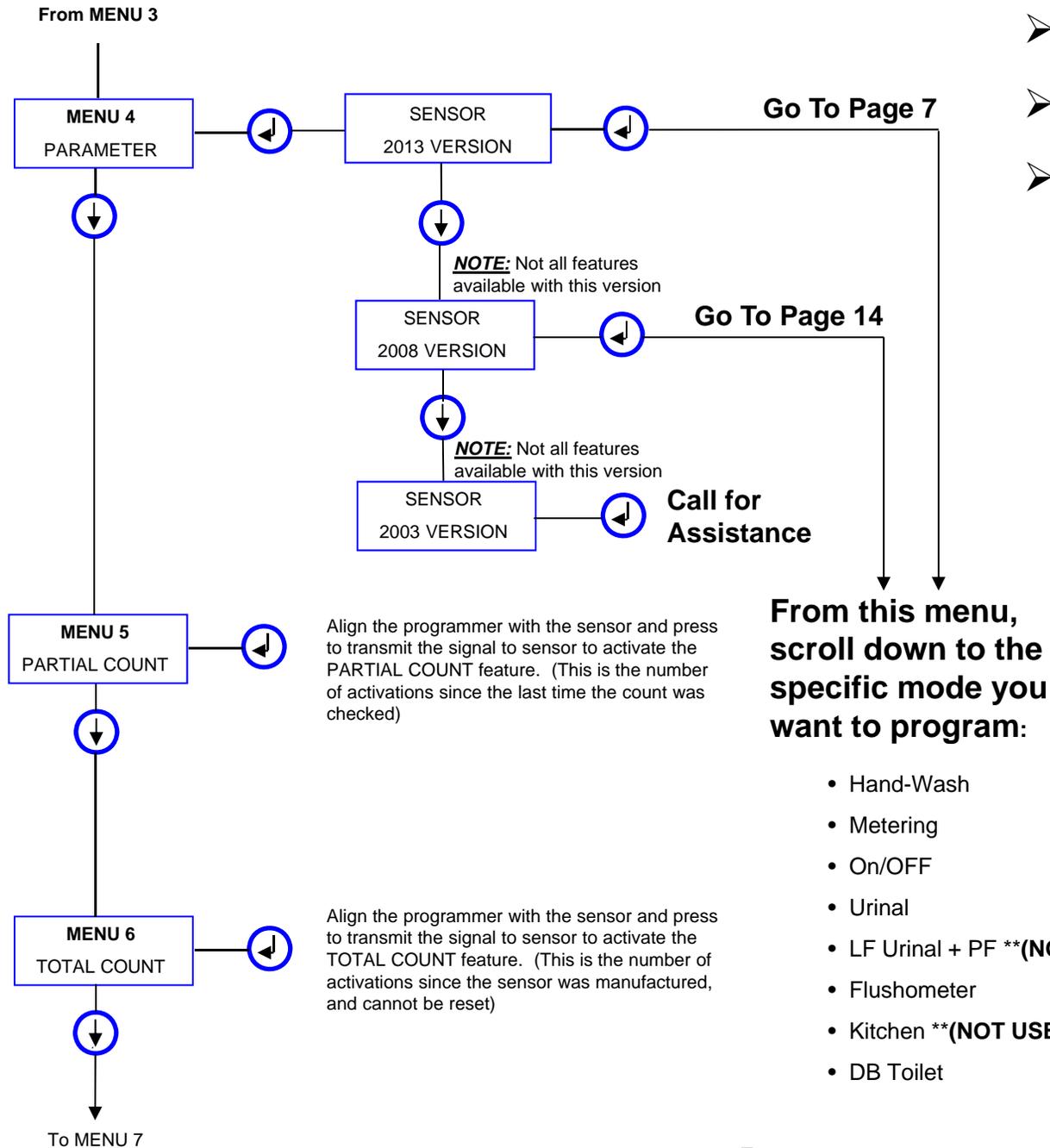


- Start
- Cleaning
- Disinfection
- Diagnostics

TIP: Cleaning – Use this mode to disable the sensor for 1 minute. This is sometimes used by the cleaning crew to keep the faucet “off” while cleaning the fitting and or fixture.

TIP: Disinfection – This is typically used in healthcare facilities that conduct periodic high temperature or high anti-bacterial chemical purging of the water lines. **The maintenance person should activate this mode and stay present to avoid any users from exposure to the purged water.** This ‘mode’ can be activated while in any function (handwash faucet, urinal flush valve, etc..). The duration (run time) can be programmed from 1 minute to 120 minutes in 1 minute intervals.

TIP: Diagnostics – Use this mode to determine the settings of the faucet or flush valve. NOTE: this feature will only work with products made 2008 or newer.

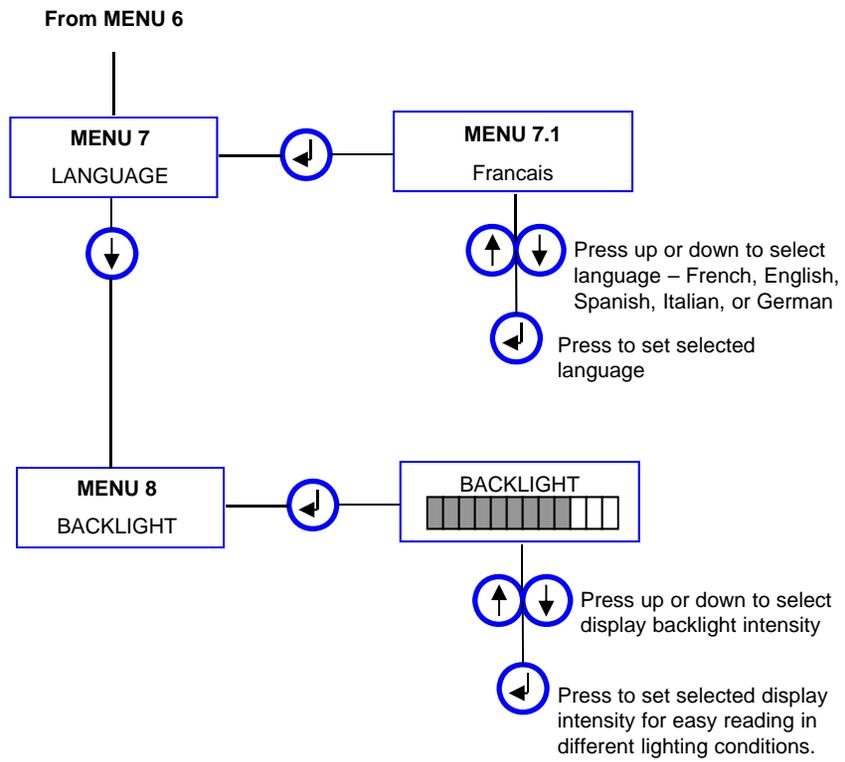


- Parameter
- Language
- Backlight

TIP: Sensor Version

- **Select 2013 Version** for all Selectronic products manufactured starting in July 2013.
- **Select 2008 Version** for all Selectronic products manufactured from 2008 to June 2013.
- **Call for Assistance** for products manufactured from 2003 through 2007.
- **NOTE:** Versions 2008 & 2013 will have a label on the sensor terminal to identify the version

- Hand-Wash
- Metering
- On/OFF
- Urinal
- LF Urinal + PF **** (NOT USED) ****
- Flushometer
- Kitchen **** (NOT USED) ****
- DB Toilet



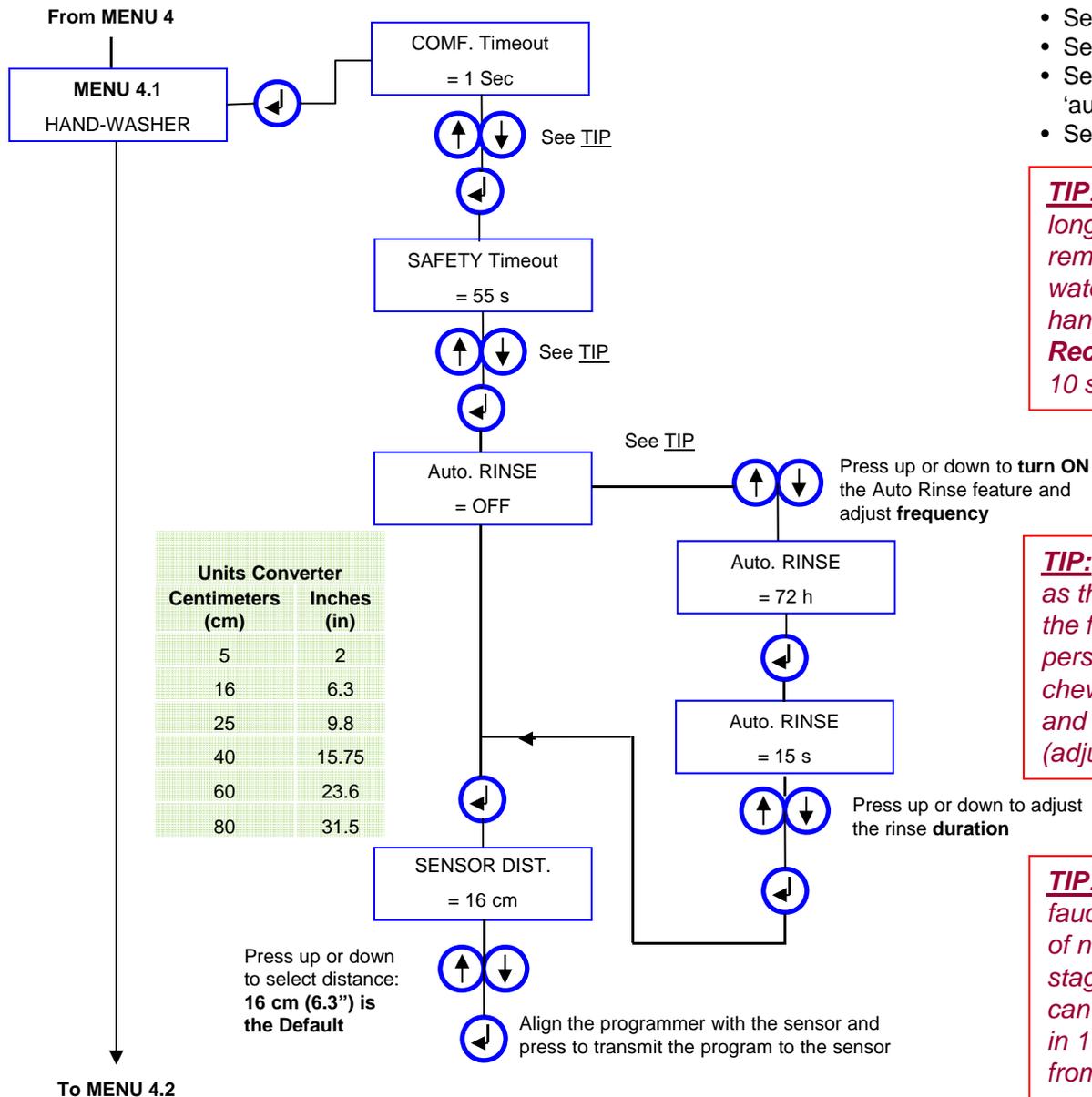
FOR SENSOR 2013 VERSION

After selecting “**SENSOR 2013 VERSION,**” scroll down to the specific mode you want to program:

- Hand-Wash
- Metering
- On/OFF
- Urinal
- LF Urinal + PF ****(NOT USED)****
- Flushometer
- Kitchen ****(NOT USED)****
- DB Toilet

FOR SENSOR 2013 VERSION

NOTE: This is the standard 'instant on / instant off' faucet mode.



➤ Hand-Wash -- Faucet

Setting the sensor to the Hand-Wash faucet mode:

- Set the 'COMF. Timeout'
- Set the 'SAFETY Timeout'
- Set 'Auto-RINSE' frequency (if the frequency is set to 0, 'auto-rinsing' (auto-purging) is Off)
- Set 'Auto-RINSE' duration (run time)

TIP: The '**COMF. Timeout**' (Comfort Timeout) is how long the water will run after the users' hands are removed from the detection zone. This prevents the water from quickly turning On & Off as the users' hands move in & out of the detection zone.

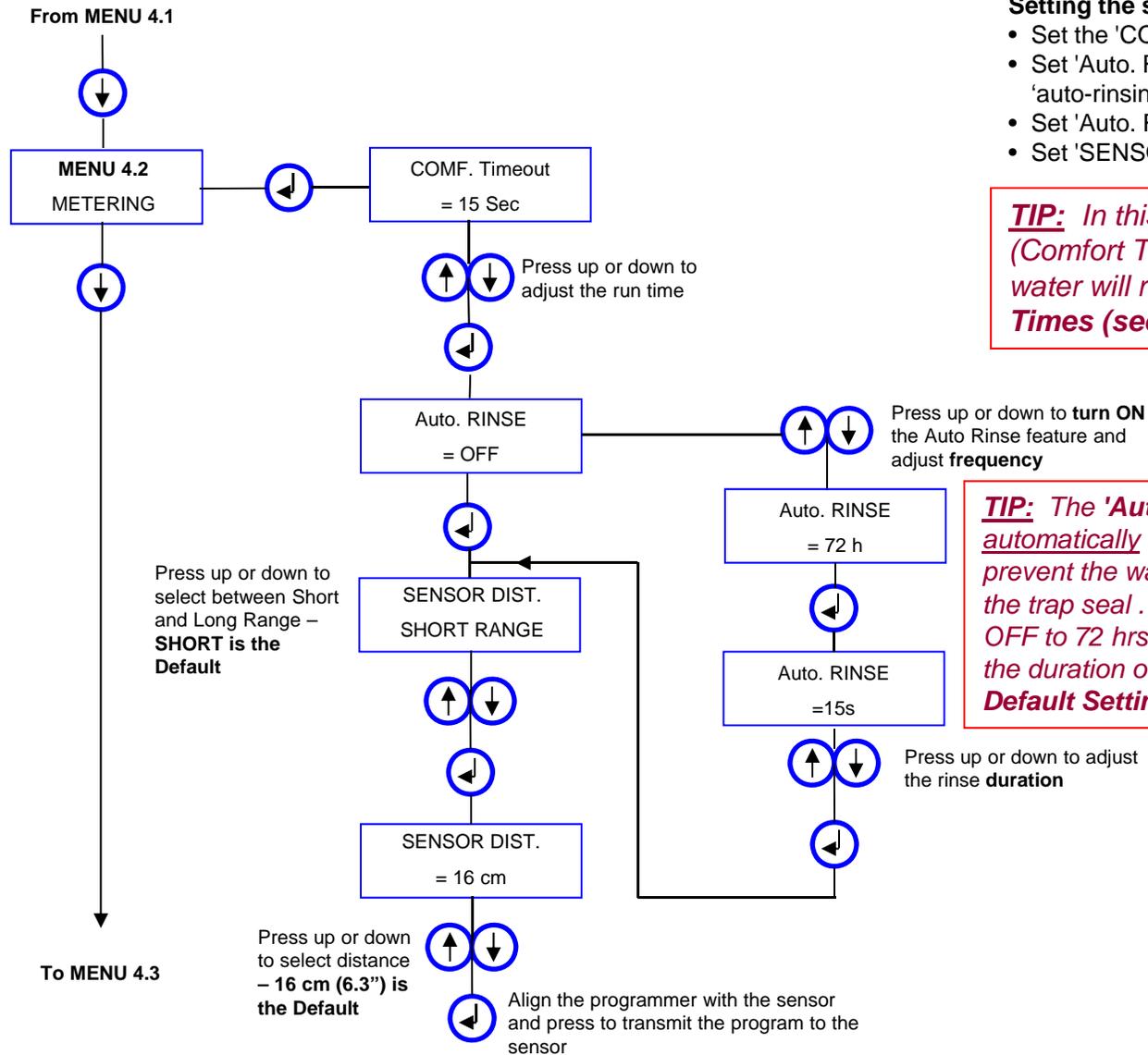
Recommended setting: 1.5 sec (adjustable from 0 to 10 sec in 0.5 sec increments).

TIP: The '**SAFETY Timeout**' is sometimes referred to as the 'vandal timer'. This feature automatically turns the faucet off after a set period of time to prevent a person from intentionally blocking the eye (with chewing gum, tape, etc.) to keep the faucet running and have the sink overflow. **Default Setting: 55 sec** (adjustable from 5 to 120 sec in 5 sec increments)

TIP: The '**Auto. RINSE**' (Auto Purge) allows the faucet to automatically turn ON after a set period time of non use, to prevent the water from becoming stagnant or to maintain the trap seal. This time period can be set to activate from OFF to 72 hrs (of non-use) in 1 hr. increments. Then set the duration of run time from 1 sec. to 240 sec. **Default Setting: 'OFF'**

FOR SENSOR 2013 VERSION

➤ Metering -- Faucet



Setting the sensor to the Metering faucet mode:

- Set the 'COMF. Timeout' (run time)
- Set 'Auto. Rinse' frequency (if the frequency is set to 0, 'auto-rinsing' (auto-purging) is Off)
- Set 'Auto. Rinse' duration (run time)
- Set 'SENSOR DIST.' (range)

TIP: In this Metering Mode, the '**COMF. Timeout**' (Comfort Timeout) is the **RUN TIME** - how long the water will run once activated by the user. **Run Times (sec.): 3.25, 7.5, 10, 15, 30, 60, 120, or 240**

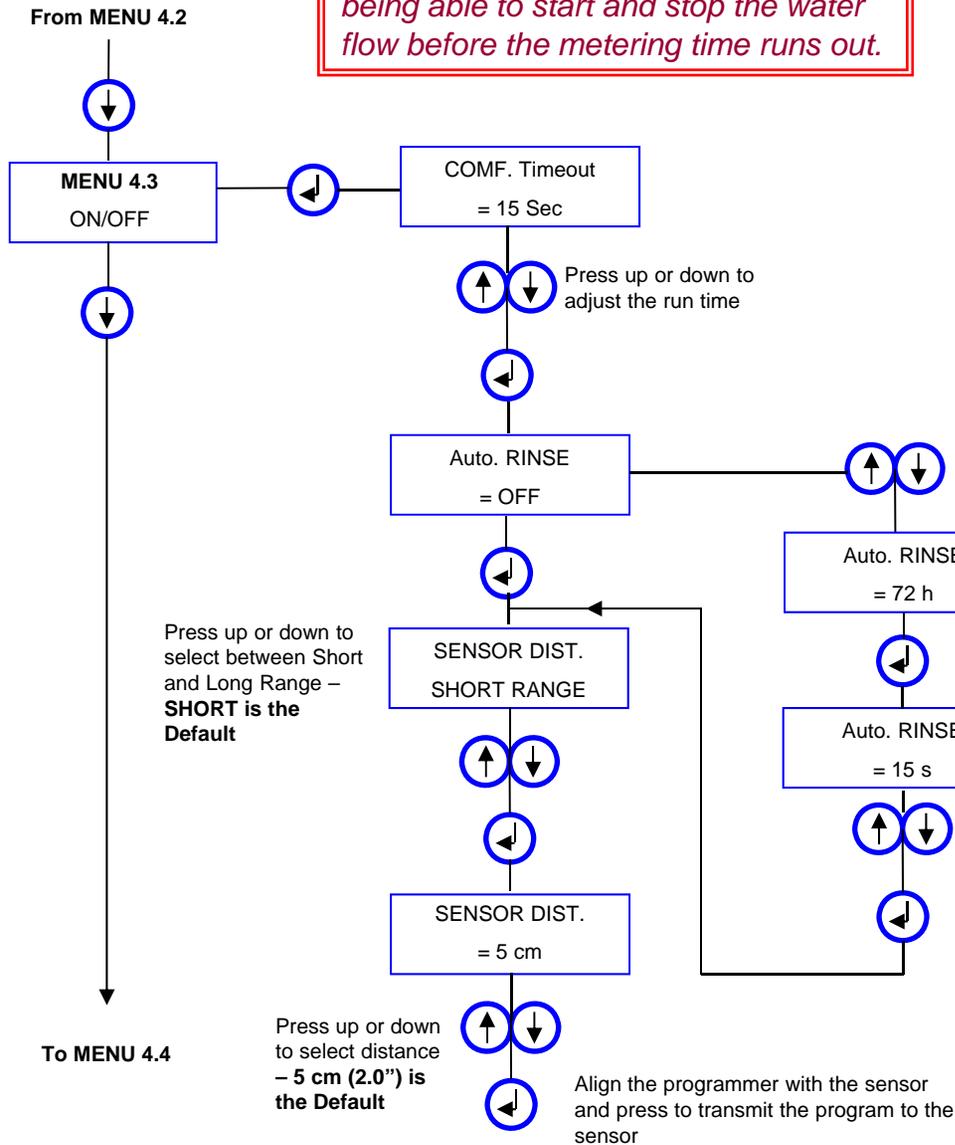
TIP: The '**Auto. RINSE**' (Auto Purge) allows the faucet to **automatically** turn ON, **after** a set period time of non use, to prevent the water from becoming stagnant or to maintain the trap seal. This time period can be set to activate from OFF to 72 hrs (of non-use) in 1 hr. increments. Then set the duration of run time from 1 sec. to 240 sec. **Default Setting: 'OFF'**

Units Converter	
Centimeters (cm)	Inches (in)
5	2
16	6.3
25	9.8
40	15.75
60	23.6
80	31.5

FOR SENSOR 2013 VERSION

➤ Metering with On/Off -- Faucet

NOTE: This is actually the 'Metering' mode, but with the added feature of being able to start and stop the water flow before the metering time runs out.



Setting the sensor to the Metering faucet mode:

- Set the 'COMF. Timeout' (run time),
- Set 'Auto. Rinse' frequency (if the frequency is set to 0, 'auto-rinsing' (auto-purging) is Off)
- Set 'Auto. Rinse' duration (run time)
- Set 'SENSOR DIST.' (range)

TIP: In this 'Metering with On/Off' Mode, the 'COMF. Timeout' is the **RUN TIME** - how long the water will run once activated by the user, The detection distance is set very short, so the user must start & stop the water by moving hands close to the sensor. This is suited for gooseneck type fittings where the movement of the user may be outside the normal detection zone. **Run Times (sec.): 3.25, 7.5, 10, 15, 30, 60, 120, or 240**

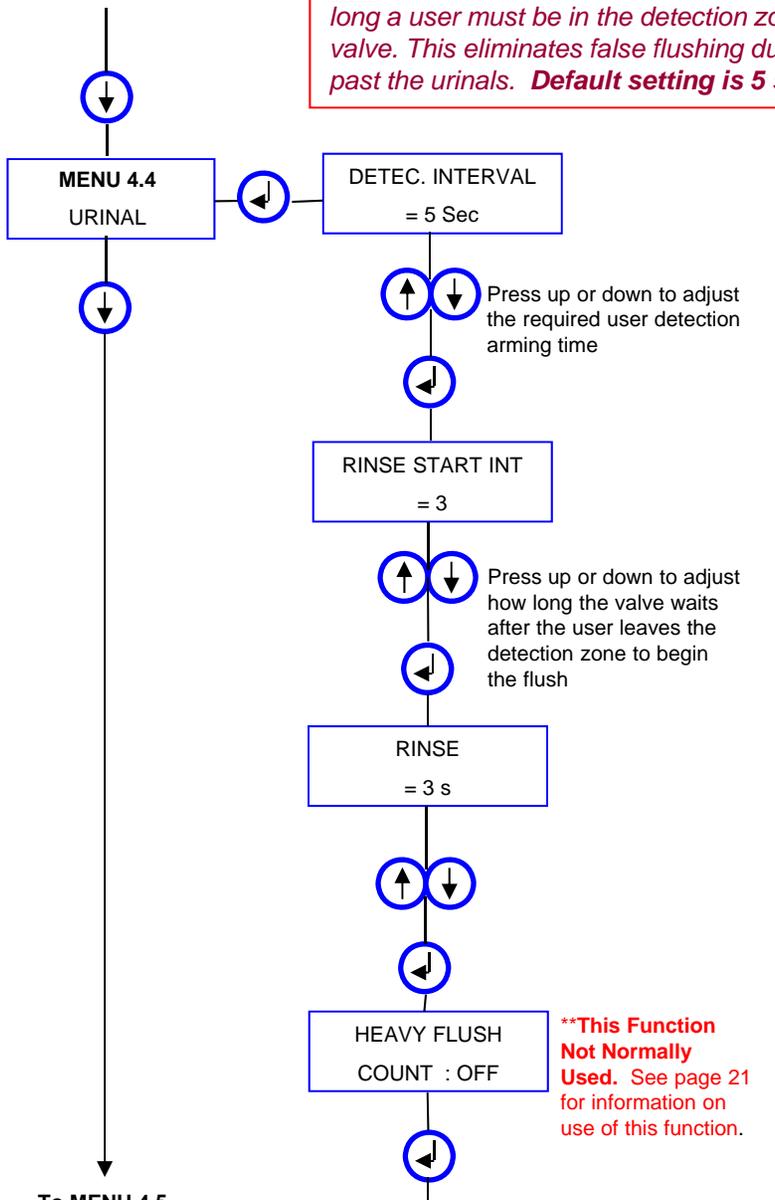
TIP: The 'Auto. RINSE' (Auto Purge) allows the faucet to automatically turn ON, after a set period time of not being used, to prevent the water from becoming stagnant or to maintain the trap seal. This time period can be set to activate from OFF to 72 hrs (of non-use) in 1 hr. increments. You can set the duration of run time from 1 sec. to 240 sec. **Default Setting: 'OFF'**

Units Converter	
Centimeters (cm)	Inches (in)
5	2
16	6.3
25	9.8
40	15.75
60	23.6
80	31.5

FOR SENSOR 2013 VERSION

➤ Urinal -- Urinal Flush Valve

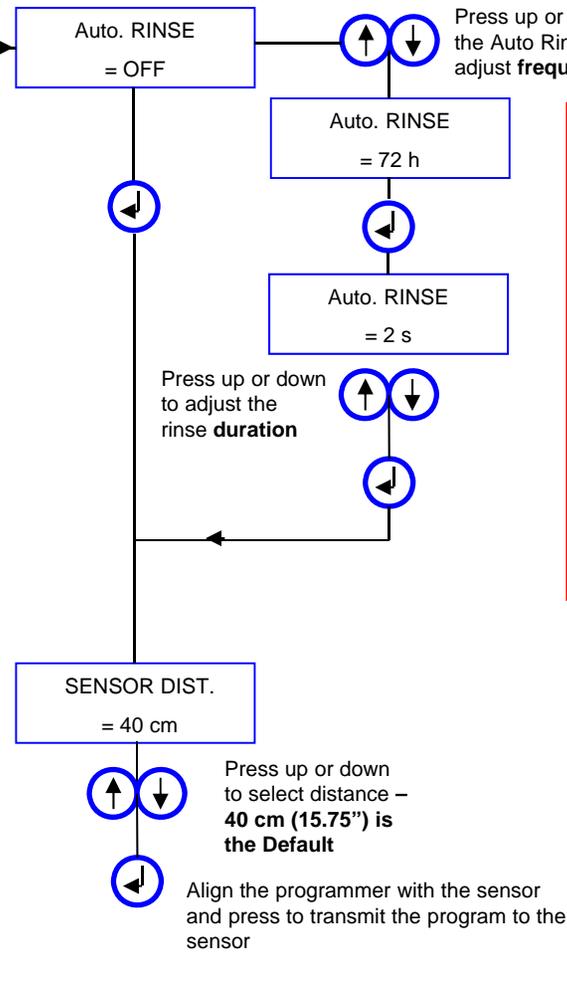
From MENU 4.3



TIP: The '**DETEC. INTERVAL**' (Detection Interval) is how long a user must be in the detection zone to arm the flush valve. This eliminates false flushing due to people walking past the urinals. **Default setting is 5 sec.**

TIP: The '**RINSE START INT**' (rinse start interval) is how long after the user leaves the detection zone before the valve flushes. **Default setting is 3 sec.**

TIP: The '**RINSE**' is the flush time (flush duration). See **Flush Valve Settings Chart** on page 20



TIP: The '**Auto. RINSE**' (Sanitary Flush) allows the flush valve to automatically flush, after a set period time of not being used, to maintain the trap seal. The **Frequency** can be set from OFF to 72 hrs (of non-use) in 1 hr. increments. The **Duration** of flush time can set from 1 sec. to 240 sec.

Frequency Default Setting: 'OFF' (unless prolonged non-use is expected)

NOTE: '**Auto. RINSE**' Duration must never deliver more water than the fixture can drain before overflowing!

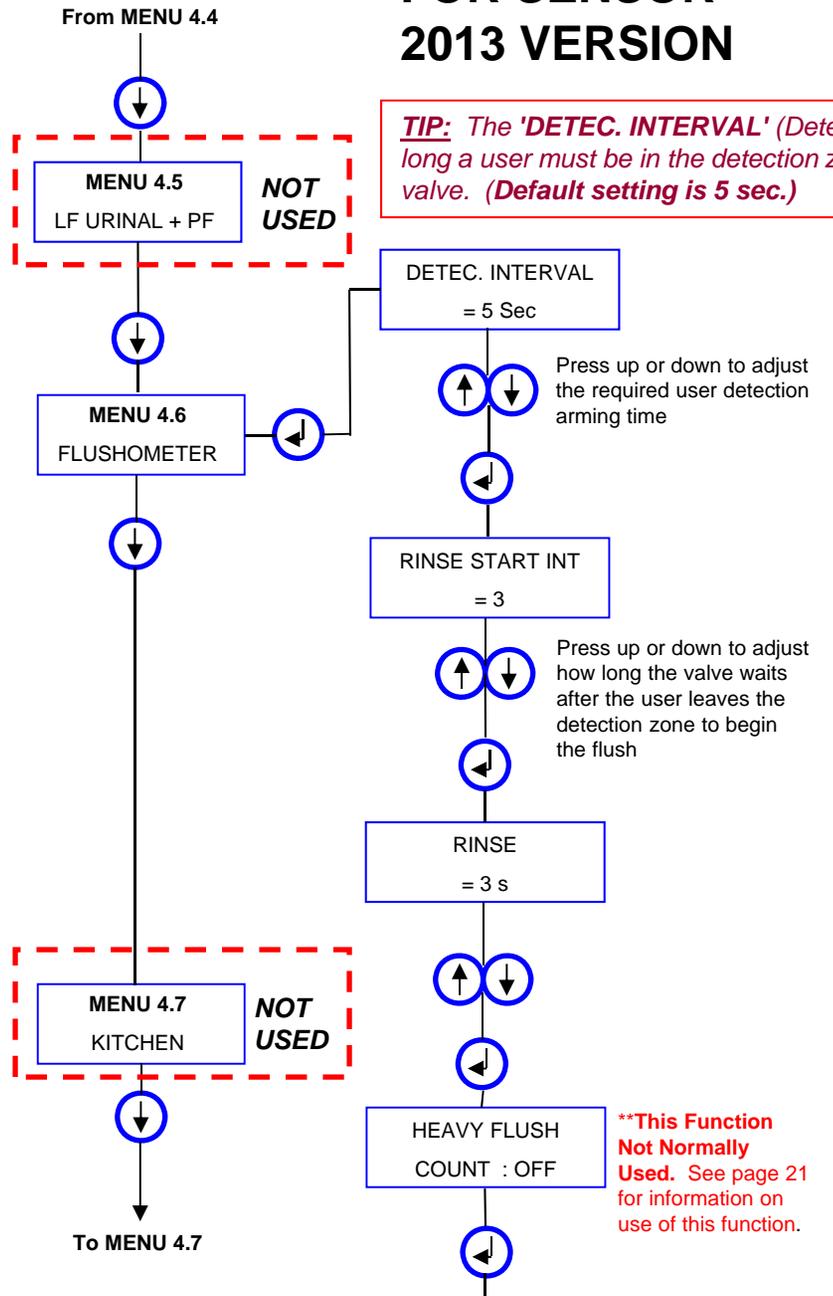
Recommended 'Duration is 2 sec. (when used)

To MENU 4.5

Units Converter	
Centimeters (cm)	Inches (in)
5	2
16	6.3
25	9.8
40	15.75
60	23.6
80	31.5

FOR SENSOR 2013 VERSION

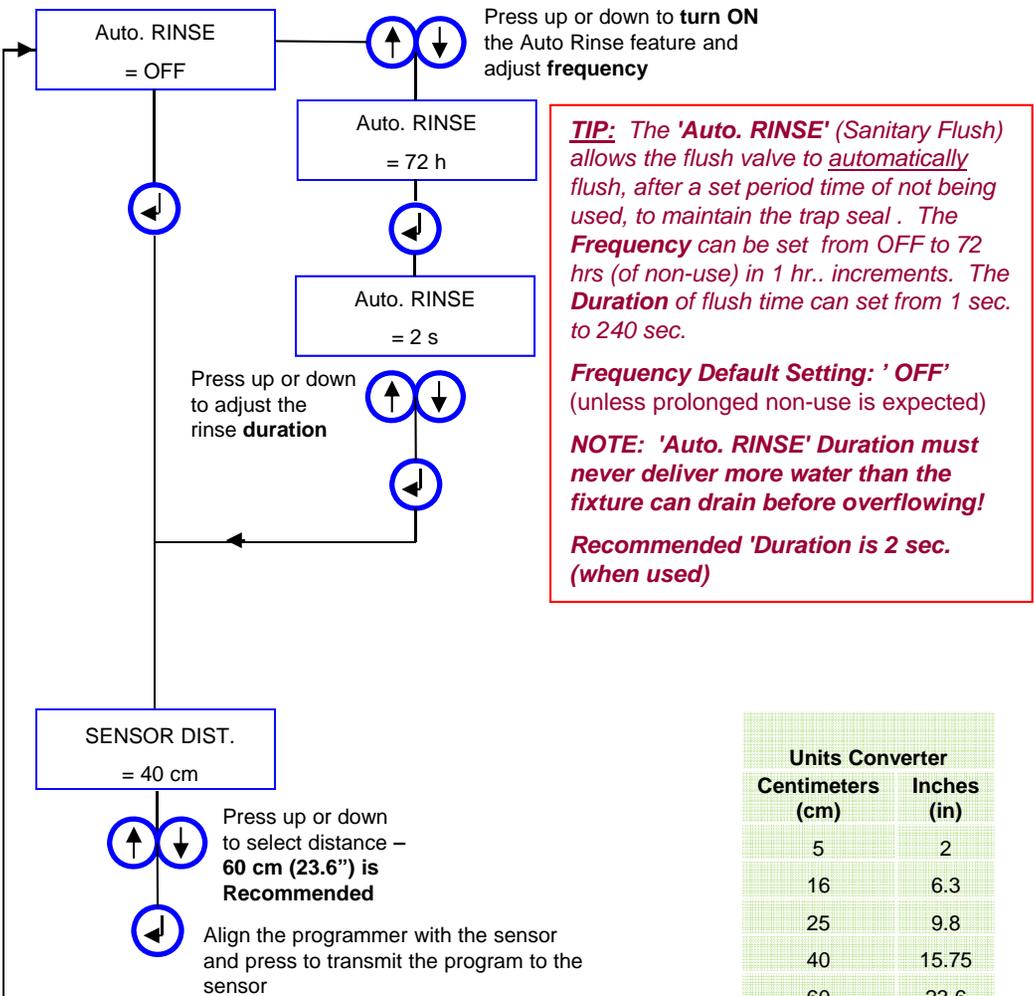
➤ Flushometer – Toilet Flush Valve



TIP: The '**DETEC. INTERVAL**' (Detection Interval) is how long a user must be in the detection zone to arm the flush valve. (Default setting is 5 sec.)

TIP: The '**RINSE START INT**' (rinse start interval) is how long after the user leaves the detection zone before the valve flushes. **Default setting is 3 sec.**

TIP: The '**RINSE**' is the flush time (flush duration). See **Flush Valve Settings Chart** on page 20



TIP: The '**Auto. RINSE**' (Sanitary Flush) allows the flush valve to automatically flush, after a set period time of not being used, to maintain the trap seal. The **Frequency** can be set from OFF to 72 hrs (of non-use) in 1 hr. increments. The **Duration** of flush time can set from 1 sec. to 240 sec.

Frequency Default Setting: 'OFF' (unless prolonged non-use is expected)

NOTE: '**Auto. RINSE**' Duration must never deliver more water than the fixture can drain before overflowing!

Recommended 'Duration is 2 sec. (when used)

Units Converter	
Centimeters (cm)	Inches (in)
5	2
16	6.3
25	9.8
40	15.75
60	23.6
80	31.5

FOR SENSOR 2013 VERSION

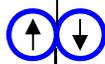
➤ Dual Flush – Toilet Flush Valve

From MENU 4.4

MENU 4.8
DB Toilet

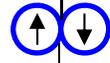


SHORT RINSING
= 1.5 Sec



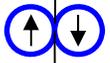
DETEC. INTERVAL
= 3 Sec

Press up or down to adjust the user detection arming time

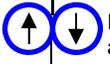


RINSE START INT
= 3

Press up or down to adjust how long the valve waits after the user leaves the detection zone to begin the flush



RINSE
= 3 s



Press up or down to adjust Flush Time



TIP: The '**SHORT RINSING**' is the flush time (flush duration) used when the user stays in the detection zone for less than 60 sec. This should be the setting for the lowest of the 2 flush volumes listed for this model flush valve. **See Flush Valve Settings Chart on page 20**

TIP: The '**DETEC. INTERVAL**' (Detection Interval) is how long a user must be in the detection zone to arm the flush valve. (Default setting is 5 sec.)

TIP: The '**RINSE START INT**' (rinse start interval) is how long after the user leaves the detection zone before the valve flushes. **Default setting is 3 sec.**

HEAVY FLUSH COUNT : OFF

****This Function Not Normally Used.** See page 21 for information on use of this function.



Auto. RINSE
= OFF

Press up or down to **turn ON** the Auto Rinse feature and adjust **frequency**



Auto. RINSE
= 72 h

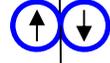


Auto. RINSE
= 2 s

Press up or down to adjust the rinse **duration**



SENSOR DIST.
= 40 cm



Press up or down to select distance – **60 cm (23.6") is Recommended**



Align the programmer with the sensor and press to transmit the program to the sensor

TIP: The '**Auto. RINSE**' (Sanitary Flush) allows the flush valve to automatically flush, after a set period time of not being used, to maintain the trap seal . The **Frequency** can be set from OFF to 72 hrs (of non-use) in 1 hr.. increments. The **Duration** of flush time can set from 1 sec. to 240 sec.

Frequency Default Setting: '**OFF**' (unless prolonged non-use is expected)

NOTE: '**Auto. RINSE**' Duration must never deliver more water than the fixture can drain before overflowing!

Recommended 'Duration is 2 sec. (when used)

TIP: The '**RINSE**' is the long flush time (flush duration) if the user stays in the detection zone for 60 sec. or longer. **See the Flush Valve Settings Chart on page 20**

Units Converter	
Centimeters (cm)	Inches (in)
5	2
16	6.3
25	9.8
40	15.75
60	23.6
80	31.5

FOR SENSOR 2008 VERSION

After selecting “**SENSOR 2008 VERSION,**” scroll down to the specific mode you want to program:

- Hand-Wash
- Metering
- On/OFF
- Urinal
- LF Urinal + PF ****(NOT USED)****
- Flushometer
- Kitchen ****(NOT USED)****
- DB Toilet

FOR SENSOR 2008 VERSION

NOTE: This is the standard 'instant on / instant off' faucet mode.

➤ Hand-Wash -- Faucet

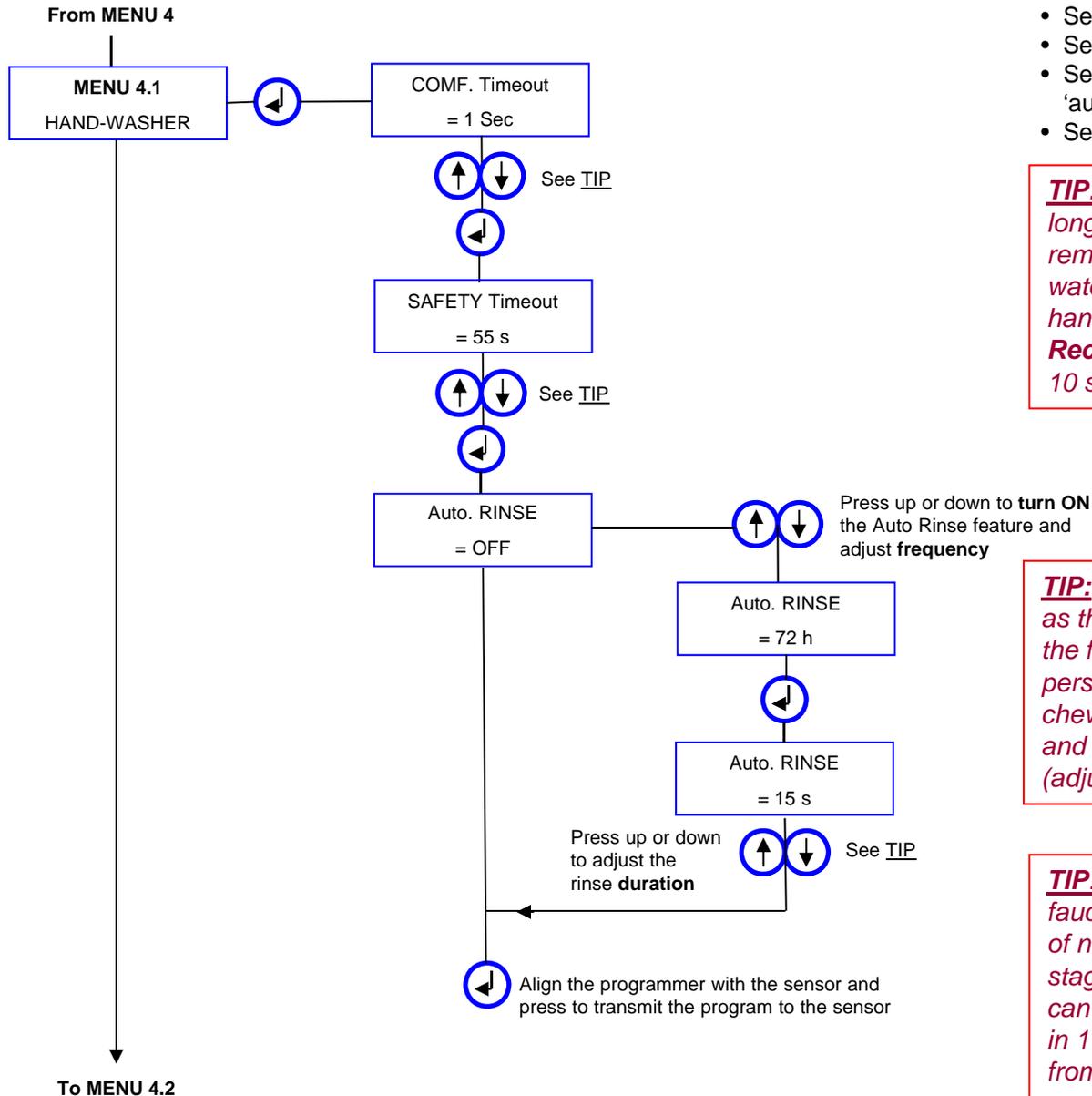
Setting the sensor to the Hand-wash faucet mode:

- Set the 'COMF. Timeout'
- Set the 'SAFETY Timeout'
- Set 'Auto. RINSE' frequency (if the frequency is set to 0, 'auto-rinsing' (auto-purging) is Off)
- Set the 'Auto. RINSE' duration (run time)

TIP: The '**COMF. Timeout**' (Comfort Timeout) is how long the water will run after the users' hands are removed from the detection zone. This prevents the water from quickly turning On & Off as the users' hands move in & out of the detection zone.
Recommended setting: 1.5 sec (adjustable from 0 to 10 sec in 0.5 sec increments).

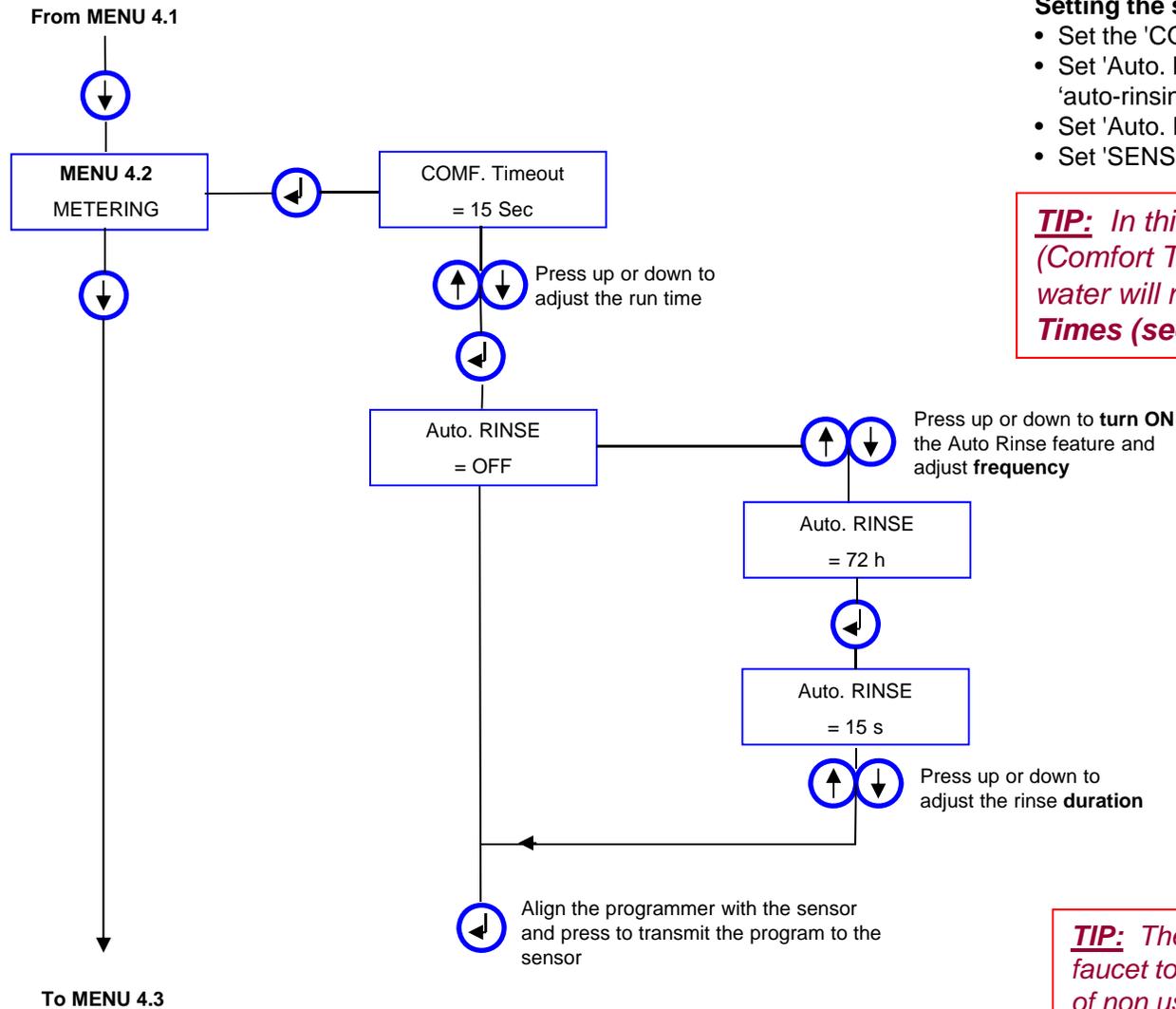
TIP: The '**SAFETY Timeout**' is sometimes referred to as the 'vandal timer'. This feature automatically turns the faucet off after a set period of time to prevent a person from intentionally blocking the eye (with chewing gum, tape, etc.) to keep the faucet running and have the sink overflow. **Default Setting: 55 sec** (adjustable from 5 to 120 sec in 5 sec increments)

TIP: The '**Auto. RINSE**' (Auto Purge) allows the faucet to automatically turn ON after a set period time of non use, to prevent the water from becoming stagnant or to maintain the trap seal. This time period can be set to activate from OFF to 72 hrs (of non-use) in 1 hr. increments. Then set the duration of run time from 1 sec. to 240 sec. **Default Setting: 'OFF'**



FOR SENSOR 2008 VERSION

➤ Metering -- *Faucet*



Setting the sensor to the Metering faucet mode:

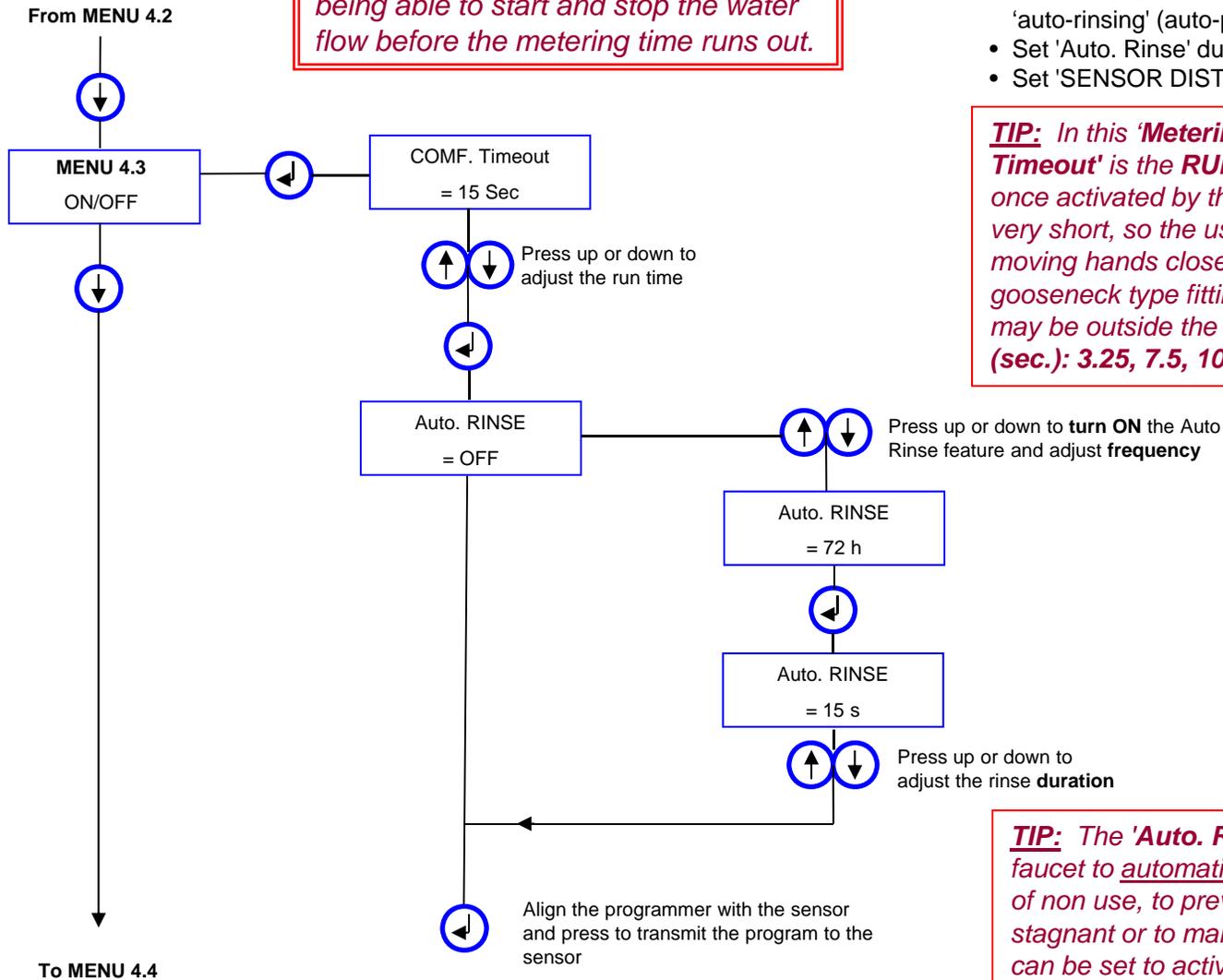
- Set the 'COMF. Timeout' (run time)
- Set 'Auto. Rinse' frequency (if the frequency is set to 0, 'auto-rinsing' (auto-purging) is Off)
- Set 'Auto. Rinse' duration (run time)
- Set 'SENSOR DIST.' (range)

TIP: In this Metering Mode, the '**COMF. Timeout**' (Comfort Timeout) is the **RUN TIME** - how long the water will run once activated by the user. **Run Times (sec.): 3.25, 7.5, 10, 15, 30, 60, 120, or 240**

TIP: The '**Auto. RINSE**' (Auto Purge) allows the faucet to automatically turn ON after a set period time of non use, to prevent the water from becoming stagnant or to maintain the trap seal. This time period can be set to activate from OFF to 72 hrs (of non-use) in 1 hr. increments. Then set the duration of run time from 1 sec. to 240 sec. **Default Setting: 'OFF'**

FOR SENSOR 2008 VERSION

NOTE: This is actually the 'Metering' mode, but with the added feature of being able to start and stop the water flow before the metering time runs out.



➤ Metering with On/Off -- Faucet

Setting the sensor to the Metering faucet mode:

- Set the 'COMF. Timeout' (run time),
- Set 'Auto. Rinse' frequency (if the frequency is set to 0, 'auto-rinsing' (auto-purging) is Off)
- Set 'Auto. Rinse' duration (run time)
- Set 'SENSOR DIST.' (range)

TIP: In this 'Metering with On/Off' Mode, the 'COMF. Timeout' is the RUN TIME - how long the water will run once activated by the user, The detection distance is set very short, so the user must start & stop the water by moving hands close to the sensor. This is suited for gooseneck type fittings where the movement of the user may be outside the normal detection zone. Run Times (sec.): 3.25, 7.5, 10, 15, 30, 60, 120, or 240

TIP: The 'Auto. RINSE' (Auto Purge) allows the faucet to automatically turn ON after a set period time of non use, to prevent the water from becoming stagnant or to maintain the trap seal. This time period can be set to activate from OFF to 72 hrs (of non-use) in 1 hr. increments. Then set the duration of run time from 1 sec. to 240 sec. Default Setting: 'OFF'

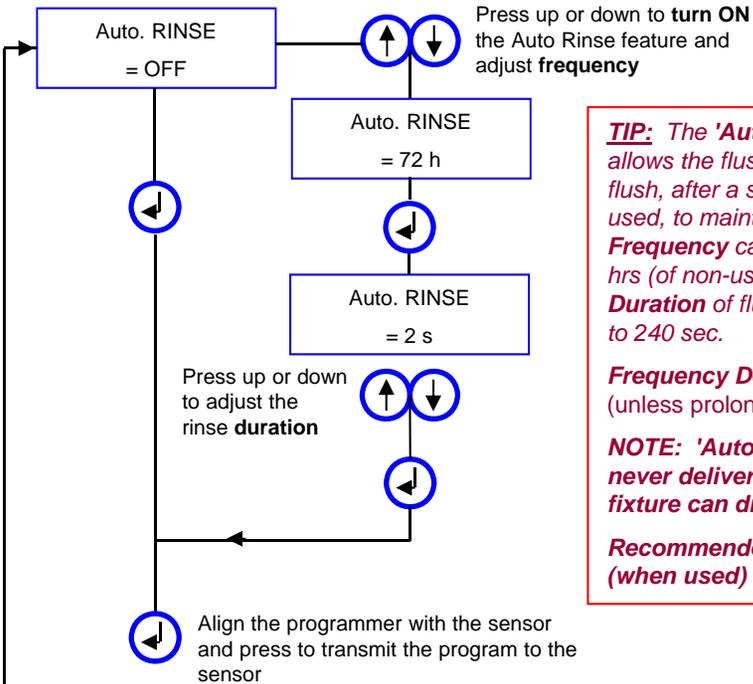
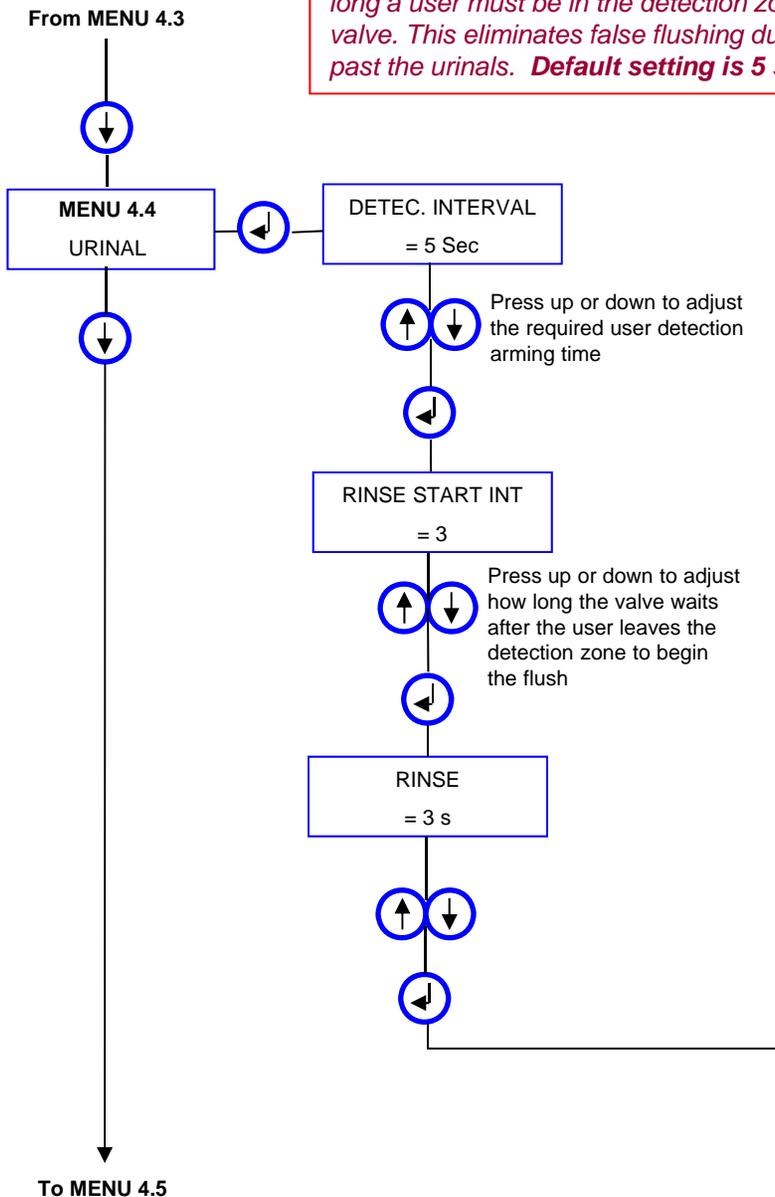
FOR SENSOR 2008 VERSION

➤ Urinal -- Urinal Flush Valve

TIP: The '**DETEC. INTERVAL**' (Detection Interval) is how long a user must be in the detection zone to arm the flush valve. This eliminates false flushing due to people walking past the urinals. **Default setting is 5 sec.**

TIP: The '**RINSE START INT**' (rinse start interval) is how long after the user leaves the detection zone before the valve flushes. **Default setting is 3 sec.**

TIP: The '**RINSE**' is the flush time (flush duration). See **Flush Valve Settings Chart** on page 20



TIP: The '**Auto. RINSE**' (Sanitary Flush) allows the flush valve to automatically flush, after a set period time of not being used, to maintain the trap seal. The **Frequency** can be set from OFF to 72 hrs (of non-use) in 1 hr.. increments. The **Duration** of flush time can set from 1 sec. to 240 sec.

Frequency Default Setting: 'OFF' (unless prolonged non-use is expected)

NOTE: 'Auto. RINSE' Duration must never deliver more water than the fixture can drain before overflowing!

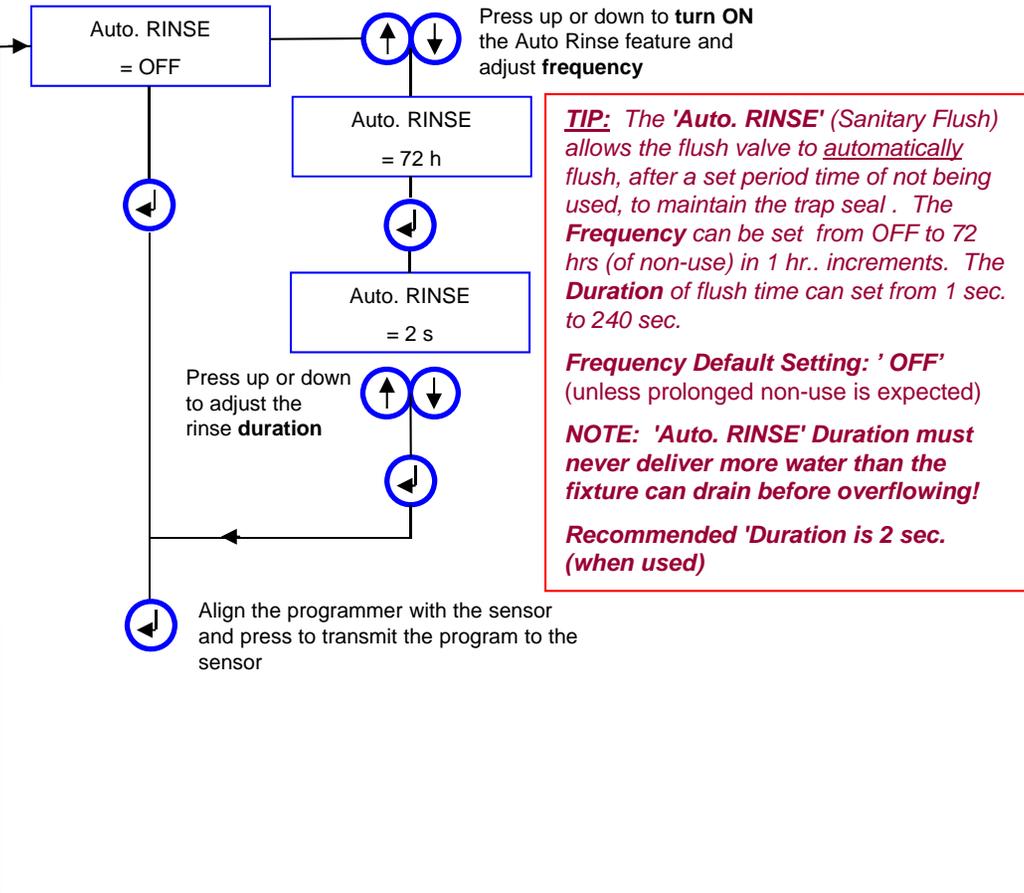
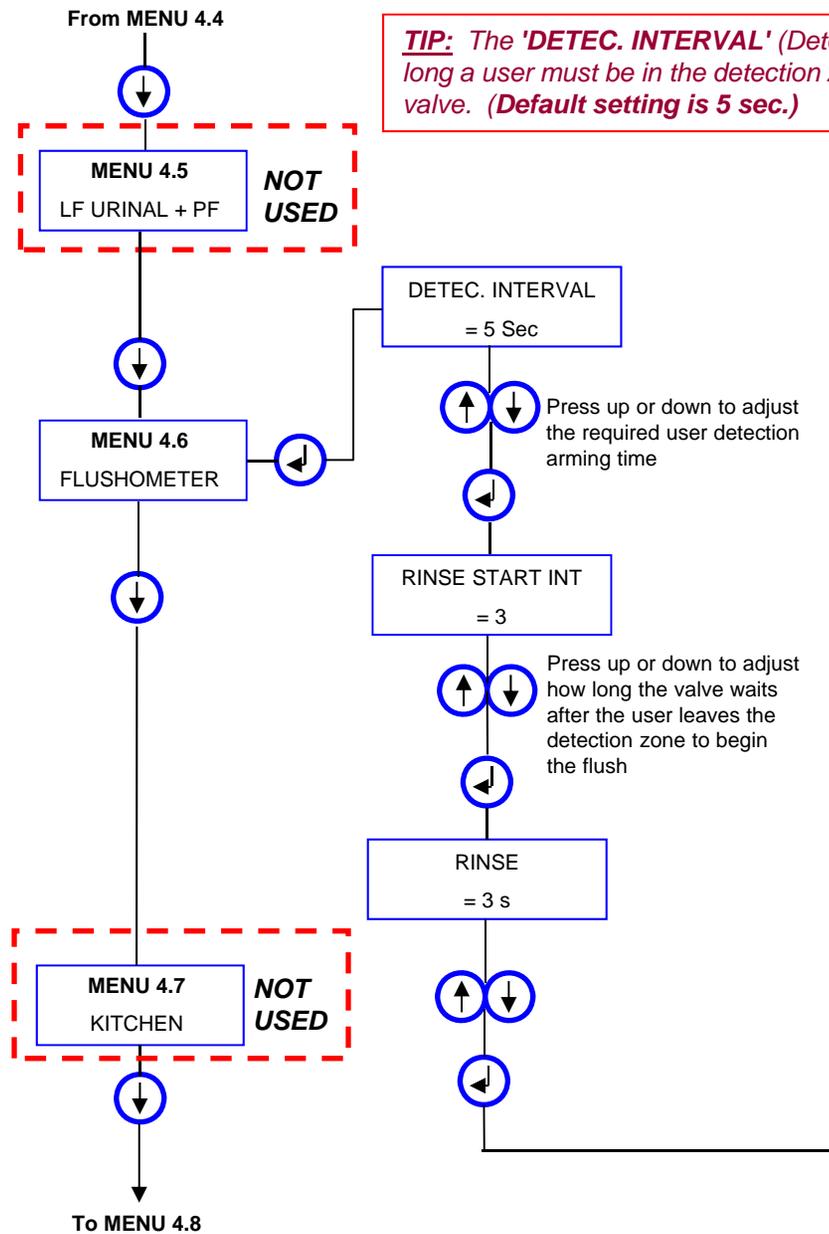
Recommended 'Duration is 2 sec. (when used)

FOR SENSOR 2008 VERSION

➤ Flushometer – Toilet Flush Valve

TIP: The '**RINSE START INT**' (rinse start interval) is how long after the user leaves the detection zone before the valve flushes. **Default setting is 3 sec.**

TIP: The '**RINSE**' is the flush time (flush duration). **See Flush Valve Settings Chart on page 20**



TIP: The '**Auto. RINSE**' (Sanitary Flush) allows the flush valve to automatically flush, after a set period time of not being used, to maintain the trap seal. The **Frequency** can be set from OFF to 72 hrs (of non-use) in 1 hr.. increments. The **Duration** of flush time can set from 1 sec. to 240 sec.

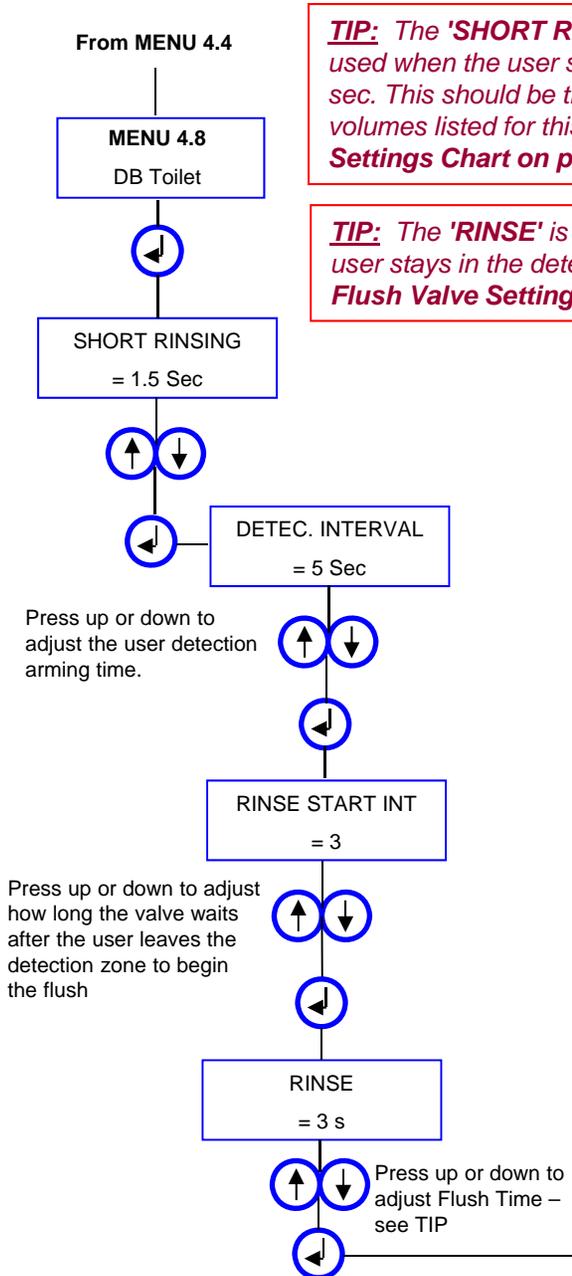
Frequency Default Setting: 'OFF' (unless prolonged non-use is expected)

NOTE: '**Auto. RINSE**' Duration must never deliver more water than the fixture can drain before overflowing!

Recommended 'Duration is 2 sec. (when used)

FOR SENSOR 2008 VERSION

➤ Dual Flush – Toilet Flush Valve

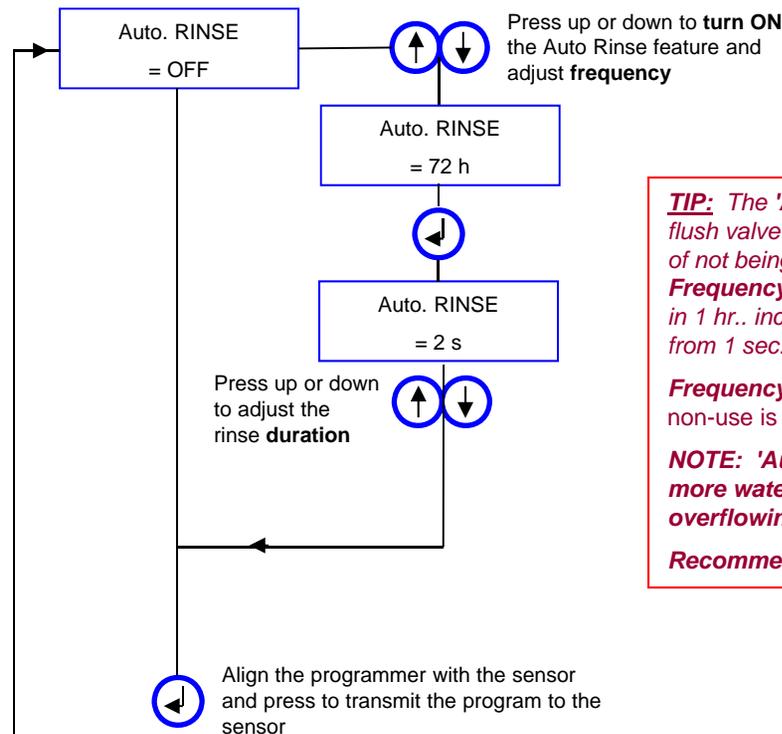


TIP: The '**SHORT RINSING**' is the flush time (flush duration) used when the user stays in the detection zone for less than 60 sec. This should be the setting for the lowest of the 2 flush volumes listed for this model flush valve. **See Flush Valve Settings Chart on page 20**

TIP: The '**RINSE**' is the long flush time (flush duration) if the user stays in the detection zone for 60 sec. or longer. **See the Flush Valve Settings Chart on page 20**

TIP: The '**DETEC. INTERVAL**' (Detection Interval) is how long a user must be in the detection zone to arm the flush valve. (Default setting is 5 sec.)

TIP: The '**RINSE START INT**' (rinse start interval) is how long after the user leaves the detection zone before the valve flushes. **Default setting is 3 sec.**



TIP: The '**Auto. RINSE**' (Sanitary Flush) allows the flush valve to automatically flush, after a set period time of not being used, to maintain the trap seal. The **Frequency** can be set from OFF to 72 hrs (of non-use) in 1 hr.. increments. The **Duration** of flush time can set from 1 sec. to 240 sec.

Frequency Default Setting: 'OFF' (unless prolonged non-use is expected)

NOTE: '**Auto. RINSE**' Duration must never deliver more water than the fixture can drain before overflowing!

Recommended 'Duration is 2 sec. (when used)

Flush Valve Settings

URINAL FLUSH VALVE SETTINGS

Model (GPF)	Detect Interval	Rinse Start (Flush Start)	Rinse (Flush-time)	Auto Rinse (Sanitary Flush)	Auto Rinse (run-time)
Innsbrook	5	3	8	OFF or 72h	2
1.0	5	3	6	OFF or 72h	2
0.5	5	3	3	OFF or 72h	1
0.25	5	3	1.5	OFF or 72h	1
0.125	5	3	1	OFF or 72h	1

TOILET FLUSH VALVE SETTINGS

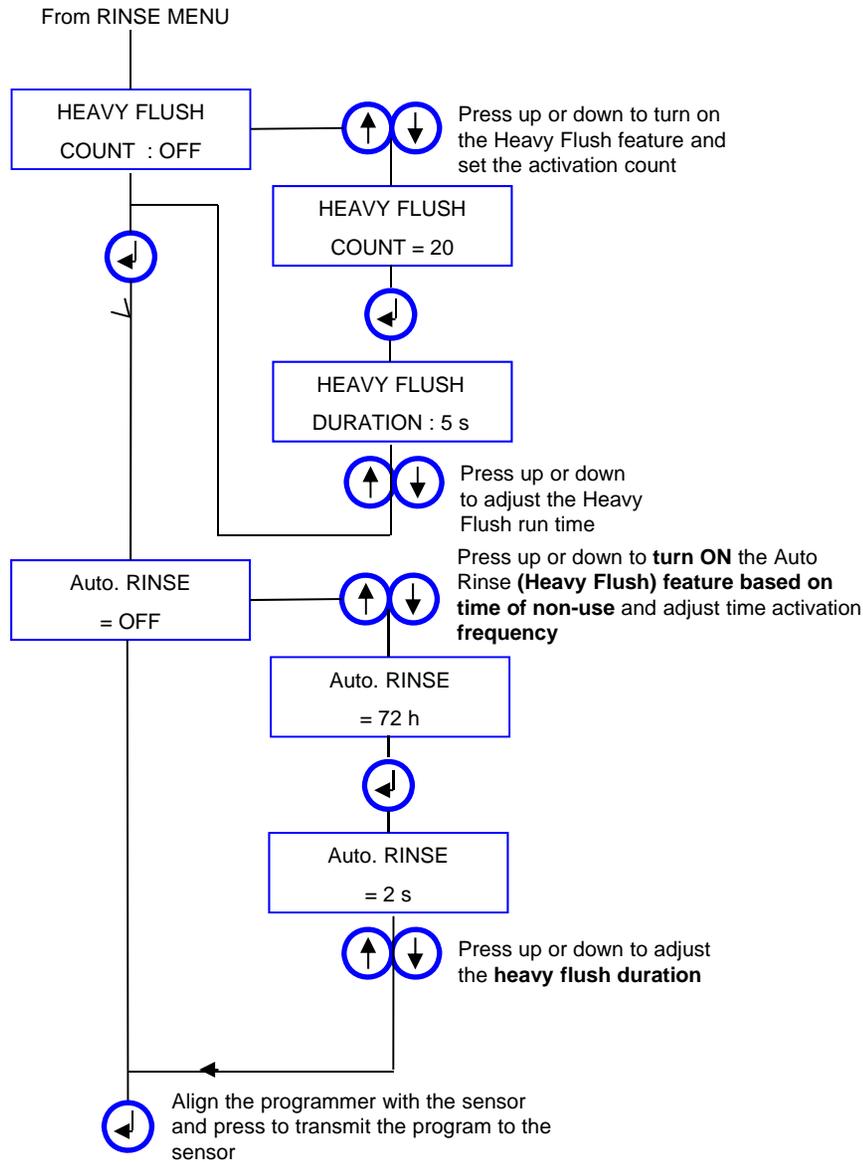
Model (GPF)	Detect Interval	Rinse Start (Flush Start)	Rinse (Flush-time)	Auto Rinse (Sanitary Flush)	Auto Rinse (run-time)
1.6	5	3	3.5	OFF or 72h	2
1.28	5	3	3	OFF or 72h	2
1.1	5	3	2.5	OFF or 72h	2

DUAL-FLUSH VALVE SETTINGS

Model (GPF)	Short Rinsing (Short Flush)	Detect Interval	Rinse Start (Flush Start)	Rinse (Flush-time)	Auto Rinse (Sanitary Flush)	Auto Rinse (run-time)
1.6 / 1.1	2.5	5	3	3.5	OFF or 72h	2
1.28 / 1.1	2.5	5	3	3.0	OFF or 72h	2

Units Converter	
Centimeters (cm)	Inches (in)
5	2
16	6.3
25	9.8
40	15.75
60	23.6
80	31.5

PERIODIC HEAVY FLUSH FEATURE



Periodic Heavy Flush - A slug of water (higher than the standard flush volume) is sent through the drain line after a pre-programmed number of flushes, or specified time period of non-use, to help prevent drain line clogging. The volume and frequency of the slug of water are easily programmable. Flush valves with the Periodic Heavy Flush Feature can be located upstream of ultra-high efficiency fixtures or in areas of potential drain line carry issues. See pages 22 & 23 for water conservation chart and application examples.

The PHF feature can be activated for the Urinal, Flushometer, and Dual Flush functions with the Sensor 2013 Version.

TIP: The '**HEAVY FLUSH COUNT**' feature allows the flush valve to automatically flush a heavy flush after a set number of flush activations, to maintain the drain line. The activation count can be set from OFF to 100 in increments of 10 activations. You can set the duration of flush time from 1 sec. to 240 sec. – **never set for more than the fixture can drain before overflowing!**

Default setting: 'OFF'

TIP: The '**Auto. RINSE**' (**HEAVY FLUSH**) allows the flush valve to automatically flush after a set period time of not being used, to maintain the drain line. This time period can be set to activate from OFF to 72 hrs (of non-use) in 1 hr. increments. You can set the duration of the heavy flush time from 1 sec. to 240 sec. – **never more than the fixture can drain before overflowing!**

Default setting: 'OFF'

Water Savings Afforded by PHFD Flush Valves Versus Standard 1.6 GPF Flushing Systems

	# Toilets	Flush Volume	Flushes Per Day	Total Gallons	Savings (gal.)	% Savings vs. 1.6
1.6 GPF Standard Toilets	14	1.6	10	224.0	0	0
1.28 GPF HET Toilets	14	1.28	10	179.2	44.8	20%
1.1 GPF UHET Toilet Systems	14	1.1	10	154.0		
- 1 Heavy Flush after timed-out period of 'non-use'.	3	1.6	3	14.4		
				168.4	55.6	25%
1.1 GPF UHET Toilet Systems	14	1.1	8	123.2		
- 1 Heavy Flush every 5 Flushes	14	1.6	2	44.8		
				168.0	56.0	25%
1.1 GPF UHET Toilet Systems	11	1.1	10	121.0		
	3	1.1	7	23.1		
- 3 Heavy Flushes/day for 3 flush valves based on count usage	3	1.6	3	14.4		
				158.5	65.5	29%

Using PHFD To Address Drain Line Carry-out With UHET & HET Fixtures

