

User Guide

Infrared Configuration Unit (ICU)

The ICU provides advanced configuration of the Cistermiser range of infrared activated washroom products.

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Inserting and replacing batteries

The ICU uses 2 AAA or LR03 Alkaline batteries, these must be installed before use. Always use new batteries of the same type. Install as indicated in the battery compartment on the rear of the ICU.

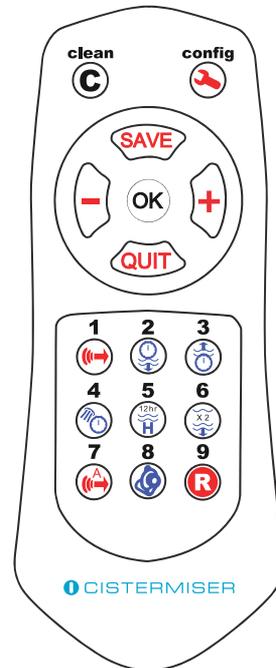
Please note: batteries should be replaced when the signal of the ICU becomes weak and it becomes difficult to activate either cleaning or configuration mode.



Direct Flush Configuration

Button descriptions

-  **C** Activates cleaning mode
-  Activates ICU configuration mode
-  Decreases setting
-  Increases setting
-  **OK** Checks the setting being altered
-  **SAVE** Saves the changes and exits ICU configuration mode
-  **QUIT** Quits ICU configuration mode without saving changes
-  **1** Configures sensor range
-  **2** Configures flush time
-  **5** 12hr hygiene cycle activation
-  **7** Autorange setting of sensor range
-  **8** Siphonic trap refill activation
-  **9** Resets to default factory settings



Activating cleaning mode

Point the ICU at the Direct Flush sensor (in normal operation mode) and press the **C** clean button. This will deactivate the sensor for 30 seconds so the product can be cleaned without activating the valve. After 30 seconds the sensor will return to normal operation.

Activating ICU configuration mode

In order to activate ICU configuration mode with the ICU, it must be pointed at the Direct Flush sensor. Activation is most effective when the configuration button is held down as the ICU is brought close to the sensor. It can take up to 3 seconds for Direct Flush to sense the ICU.

Direct Flush will return to normal operation if there are no button presses for 30 seconds.

Configuring sensor range

Point the ICU at the Direct Flush sensor and press the **1** sensor range button (the sensor blinks green). Decrease or increase the Sensor Range by pressing the **-** and **+** buttons respectively. The sensor blinks red when the min or max value is reached. Press the **OK** button to check the sensor range setting - the sensor displays the current setting by flashing green, as indicated in the table below.

Number of flashes	1	2	3	4	5
Range (cm approx)	45	50	53	56	58

Save setting and exit the ICU configuration mode by pressing the **SAVE** button. Exit without saving by pressing the **QUIT** button.

Configuring flush time

Point the ICU at the Direct Flush sensor and press the **2** flush time button (the sensor blinks green). Decrease or increase the flush time by pressing the **-** and **+** buttons respectively. The sensor blinks red when the min or max value is reached. Press the **OK** button to check the Flush Time setting - the sensor displays the current setting by flashing green, as indicated in the table below.

Number of flashes	1	2	3	4	5
Flush time (sec)	3	5	7	9	11

Save setting and exit the ICU configuration mode by pressing the **SAVE** button. Exit without saving by pressing the **QUIT** button.

Activating the 12hr hygiene flush cycle

Point the ICU at the Direct Flush sensor and press the **5** hygiene cycle button (the sensor blinks green). Pressing the **+** and **-** buttons switches the Hygiene Flush function on or off respectively. Press the **OK** button to check the setting - the sensor flashes green once if function is off or twice if it is on.

Save setting and exit the ICU configuration mode by pressing the **SAVE** button. Exit without saving by pressing the **QUIT** button.

Configuring sensor range using the autorange function

Point the ICU at the Direct Flush sensor and press the **7** autorange button. Immediately stand clear of the sensor. Sensor blinks green for 5 seconds, then a steady green when setting complete. The sensor measures the background reflections and sets the sensor range to an appropriate setting.

Save setting and exit the ICU configuration mode by pressing the **SAVE** button. Exit without saving by pressing the **QUIT** button.

Activating the siphonic trap refill function

Point the ICU at the Direct Flush sensor and press the **8** siphonic trap button (the sensor blinks green). Pressing the **+** and **-** buttons switches the Siphonic Trap refill function on or off respectively. Press the **OK** button to check the setting - the sensor flashes green once if function is off or twice if it is on.

Save setting and exit the ICU configuration mode by pressing the **SAVE** button. Exit without saving by pressing the **QUIT** button.

Reset to factory settings

Point the ICU at the Direct Flush sensor and press the **9** reset button (the sensor blinks green). This sets all settings to the default factory settings.

Save all settings and exit the ICU configuration mode by pressing the **SAVE** button. Exit without saving by pressing the **QUIT** button.

Easyflush Configuration

Button descriptions

-  **C** Activates cleaning mode
-  Activates ICU configuration mode
-  Decreases setting
-  Increases setting
-  Checks the setting being altered
-  Saves the changes and exits ICU configuration mode
-  Quits ICU configuration mode without saving changes
-  **1** Configures sensor range
-  **2** Configures part flush time
-  **3** Configures cistern refi ll time
-  **4** Toggles Wave function ON/OFF (Walkaway ONLY)
-  **5** 12-hour hygiene cycle activation
-  **6** Dual flush activation
-  **7** Aurorance setting of sensor range
-  **9** Resets to default factory settings



Activating cleaning mode

Point the ICU at the Easyflush sensor (in normal operation mode) and press the **C** clean button. This will deactivate the sensor for 30 seconds so the product can be cleaned without activating the valve. After 30 seconds the sensor will return to normal operation.

Entering configuration mode

Point the ICU towards the Easyflush sensor and push the  configuration button. Activation is most effective when the configuration button is held down as the ICU is brought close to the sensor. Sensor blinks red when ICU is detected.

It can take up to three seconds for the product to sense the ICU. The Easyflush will return to normal operation if there are no button presses for 30 seconds. value is reached.

Configuring sensor range

Point the ICU at the Easyflush sensor and press the **1**  sensor range button (the sensor blinks green). Decrease or increase the Sensor Range by pressing the  and  buttons respectively. The sensor blinks red when the min or max value is reached.

Press the **OK** button to check the sensor range setting - the sensor displays the current setting by flashing green; see table.

For Wave version

Number of flashes	1	2	3	4	5
Range (cm approx)	6	9	11	15	17

For Walkaway version

Number of flashes	1	2	3	4	5
Range (cm approx)	45	50	53	56	58

Save setting and exit the ICU configuration mode by pressing the **SAVE** button. Exit without saving by pressing the **QUIT** button.

Configuring part time flush

Point the ICU at the Easyflush sensor and press the **2**  **flush time** button (the sensor blinks green). Decrease or increase the part flush time by pressing the  and  buttons respectively. The sensor blinks red when the min or max value is reached. Press the **OK** button to check the part flush time setting - the sensor displays the current setting by flashing green, see table.

Number of flashes	1	2	3	4	5
Part flush time (sec)	1	2	3	4	5

Save setting and exit the ICU configuration mode by pressing the **SAVE** button. Exit without saving by pressing the **QUIT** button.

Note: The full flush volume is set by setting the float height in the cistern.

Configuring refill time

Point the ICU at the Easyflush sensor and press the **3**  **refill time** button (the sensor blinks green).

Decrease or increase the Refill Time by pressing the  and  buttons respectively. The sensor blinks red when the min or max value is reached. Press the **OK** button to check the refill time setting - the sensor displays the current setting by flashing green, see table.

Number of flashes	1	2	3	4	5	6	7
Part flush time (sec)	0	20	40	60	80	100	120

Save setting and exit the ICU configuration mode by pressing the **SAVE** button. Exit without saving by pressing the **QUIT** button.

Activating and de-activating the hand wave flushing (walkaway version only)

Point the ICU at the Easyflush sensor and press the button (the sensor blinks green). By default the hand wave function is on. Pressing the  and  buttons switches the hand wave function on or off respectively. Press the **OK** button to check the setting - the setting flashes green once if the function is off or twice if it is on.

Save setting and exit the ICU configuration mode by pressing the **SAVE** button. Exit without saving by pressing the **QUIT** button.

Activating the 12hr hygiene flush cycle

Point the ICU at the Easyflush sensor and press the **5**  **hygiene cycle** button (the sensor blinks green). Pressing the  and  buttons switches the hygiene flush function on or off respectively. Press the **OK** button to check the setting - the sensor flashes green once if the function is off or twice if it is on.

Save setting and exit the ICU configuration mode by pressing the **SAVE** button. Exit without saving by pressing the **QUIT** button.

Activating the dual flush function

Point the ICU at the Easyflush sensor and press the **6**  **dual flush** button (the sensor blinks green). Pressing the  and  buttons switches the dual flush function on or off respectively. Press the **OK** button to check the setting - the sensor flashes green once if the function is off or twice if it is on.

Save setting and exit the ICU configuration mode by pressing the **SAVE** button. Exit without saving by pressing the **QUIT** button.

Configuring sensor range using the autorange function

If the cubicle door is opposite the sensor, ensure that the cubicle door is closed or ajar, but not fully open. Point the ICU at the Easyflush sensor and press the **7**  button.

Immediately stand clear of the sensor. Sensor blinks green for 5 seconds, then a steady green when setting complete. The sensor measures the background reflections and sets the sensor range to an appropriate setting.

Save setting and exit the ICU configuration mode by pressing the **SAVE** button. Exit without saving by pressing the **QUIT** button.

Reset to factory settings

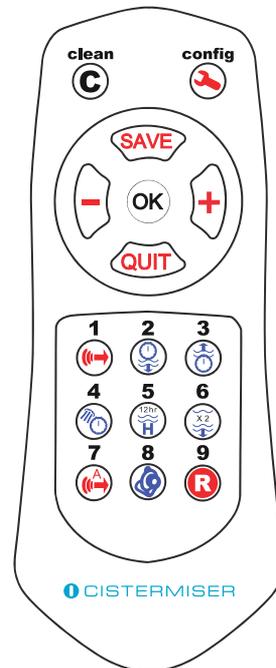
Point the ICU at the Easyflush sensor and press the **9**  **reset** button (the sensor blinks green). This sets all settings to the default factory settings.

Save all settings and exit the ICU configuration mode by pressing the **SAVE** button. Exit without saving by pressing the **QUIT** button.

Infrared Taps Configuration

Button descriptions

- C** Activates cleaning mode
-  Activates ICU configuration mode
-  Decreases setting
-  Increases setting
- OK** Checks the setting being altered
- SAVE** Saves the changes and exits ICU configuration mode
- QUIT** Quits ICU configuration mode without saving changes
-  **1** Configures sensor range
-  **4** Configures run-on time
-  **5** 12hr hygiene cycle activation
-  **9** Resets to default factory settings



Activating cleaning mode

Point the ICU at the sensor (in normal operation mode) and press the **C** clean button. This will deactivate the sensor for 30 seconds so the product can be cleaned without activating the valve. After 30 seconds the sensor will return to normal operation.

Activating ICU configuration mode

In order to achieve ICU configuration mode with the ICU, it must be pointed at the sensor of the selected washroom product. Activation is most effective when the  configuration button is held down as the ICU is brought close to the sensor. It can take up to 3 seconds for the product to sense the ICU.

The washroom product will return to normal operation if there are no button presses for 30 seconds.

Configuring sensor range

Point the ICU at the sensor and press the 1  **sensor range** button (the sensor blinks green). Decrease or increase the sensor range by pressing the  and  buttons respectively. The sensor blinks red when the min or max value is reached. Press the  button to check the sensor range setting - the sensor displays the current setting by flashing green, as indicated in the table below.

Number of flashes	1	2	3	4	5
Range (cm approx)	8	11	14	16	18

Save setting and exit the ICU configuration mode by pressing the  button. Exit without saving by pressing the  button.

Configuring run-on time

Point the ICU at the sensor and press the 4  **run-on time** button (the sensor blinks green). Decrease or increase the part flush time by pressing the  and  buttons respectively. The sensor blinks red when the min or max value is reached. Press the  button to check the run-on time setting - the sensor displays the current setting by flashing green, see table.

Number of flashes	1	2	3	4	5	6	7	8
Run-on time (sec)	1	2	3	4	5	10	20	30

Save setting and exit the ICU configuration mode by pressing the  button. Exit without saving by pressing the  button.

Configuring the 12hr hygiene rinse cycle

Point the ICU at the sensor and press the 5  **12hr hygiene rinse** button (the sensor blinks green). Decrease or increase the hygiene time by pressing the  and  buttons respectively. The sensor blinks red when the min or max value is reached. Press the  button to check the hygiene rinse time setting - the sensor displays the current setting by flashing green, see table;

Number of flashes	1	2	3	4	5	6
Range (cm approx)	0	5	10	15	30	60

Save setting and exit the ICU configuration mode by pressing the  button. Exit without saving by pressing the  button.

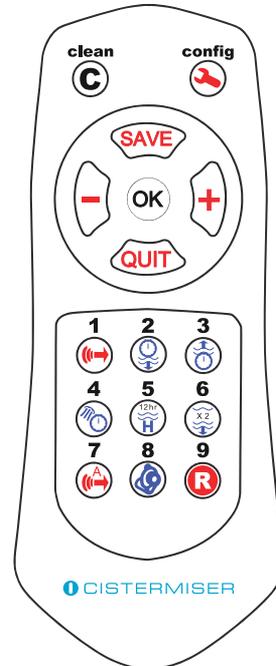
Reset to factory settings

Point the ICU at the sensor and press the 9  **reset** button (the sensor blinks green). This sets all settings to the default factory settings. Save all settings and exit the ICU configuration mode by pressing the  button. Exit without saving by pressing the  button.

Easyflush Direct Configuration

Button descriptions

-  **C** Activates cleaning mode
-  Activates ICU configuration mode
-  Decreases setting
-  Increases setting
-  Checks the setting being altered
-  Saves the changes and exits ICU configuration mode
-  Quits ICU configuration mode without saving changes
-  **1** Configures sensor range
-  **2** Configures full flush duration
-  **4** Configures hand wave
-  **5** 12hr hygiene cycle activation
-  **6** Dual flush activation
-  **7** Aurorange setting of sensor range
-  **9** Resets to default factory settings



Activating cleaning mode

Point the ICU at the Easyflush Direct sensor (in normal operation mode) and press the **C** clean button. This will deactivate the sensor for 30 seconds so the product can be cleaned without activating the valve. After 30 seconds the sensor will return to normal operation.

Entering configuration mode

Point the ICU towards the Easyflush Direct sensor and push the **config** button. Activation is most effective when the configuration button is held down as the ICU is brought close to the sensor. Sensor blinks red when ICU is detected. It can take up to three seconds for the product to sense the ICU. The Easyflush Direct will return to normal operation if there are no button presses for 30 seconds.

Configuring sensor range

Point the ICU at the Easyflush Direct sensor and press the **1** **sensor range** button (the sensor blinks green). Decrease or increase the sensor range by pressing the **-** and **+** buttons respectively. The sensor blinks red when the min or max value is reached.

Press the **OK** button to check the sensor range setting - the sensor displays the current setting by flashing green, as indicated in the table opposite.

For Wave version

Number of flashes	1	2	3	4	5
Range (cm approx)	6	9	11	15	17

For Walkaway version

Number of flashes	1	2	3	4	5
Range (cm approx)	45	50	53	56	58

Save setting and exit the ICU configuration mode by pressing the **SAVE** button. Exit without saving by pressing the **QUIT** button.

Configuring the full flush duration

Point the ICU at the Easyflush Direct sensor and press the **2**  **flush duration** button (the sensor blinks green). Decrease or increase the full flush duration by pressing the  and  respectively. Press the **OK** button to check the full flush duration setting - the sensor displays the current setting by flashing green; see table.

Number of flashes	1	2	3
Full flush time (sec)	2	3	4

Part flush duration will be automatically set at 0.6 x full flush duration. Save setting and exit the ICU configuration mode by pressing the **SAVE** button. Exit without saving by pressing the **QUIT** button.

Activating and de-activating the hand wave flushing (Walkaway version only)

Point the ICU at the Easyflush Direct sensor and press the **4**  button (the sensor blinks green). By default the hand wave function is on. Pressing the  and  buttons switches the hand wave function on or off respectively. Press the button to check the setting - the setting flashes green once if the function is off or twice if it is on. Save setting and exit the ICU configuration mode by pressing the **SAVE** button. Exit without saving by pressing the **QUIT** button.

Activating the 12 hour hygiene flush cycle

Point the ICU at the Easyflush Direct sensor and press the **5**  **hygiene cycle** button (the sensor blinks green). Pressing the  and  buttons switches the hygiene flush function on or off respectively. Press the **OK** button to check the setting - the setting flashes green once if the function is off or twice if it is on.

Save setting and exit the ICU configuration mode by pressing the **SAVE** button. Exit without saving by pressing the **QUIT** button.

Activating the dual flush function

Point the ICU at the Easyflush Direct sensor and press the **6**  **dual flush** button (the sensor blinks green). Pressing the  and  buttons switches the dual flush function on or off respectively. Press the **OK** button to check the setting - the sensor flashes green once if the function is off or twice if it is on.

Save setting and exit the ICU configuration mode by pressing the **SAVE** button. Exit without saving by pressing the **QUIT** button.

Configuring sensor range using the autorange function

If the cubicle door is opposite the sensor, ensure that the cubicle door is closed or ajar, but not fully open. Point the ICU at the Easyflush Direct sensor and press the **7**  button.

Immediately stand clear of the sensor. Sensor blinks green for 5 seconds, then a steady green when setting complete. The sensor measures the background reflections and sets the sensor range to an appropriate setting.

Save setting and exit the ICU configuration mode by pressing the **SAVE** button. Exit without saving by pressing the **QUIT** button.

Reset to factory settings

Enter into configuration mode. Point the ICU at the Easyflush Direct sensor and press the **9** : the sensor blinks green once. This returns all settings to the default factory settings.

To save the setting and exit ICU configuration mode press the **SAVE** button. The sensor will blink green for one second and then constant amber for three seconds.

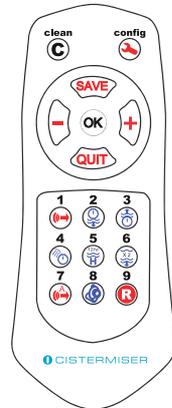
To exit without saving press the **QUIT** button. The sensor will blink red for one second and then constant amber for three seconds.

Sensazone Configuration

Button descriptions

-  **C** Activates cleaning mode
-  Activates ICU configuration mode
-  Decreases setting
-  Increases setting
-  **OK** Checks the setting being altered
-  **SAVE** Saves the changes and exits ICU configuration mode
-  **QUIT** Quits ICU configuration mode without saving changes

-  **1** Configures sensor range
-  **2** Light threshold
-  **3** Fan run-on time
-  **4** Configures run-on time
-  **5** 12hr hygiene cycle activation
-  **8** Power loss valve setting
-  **9** Resets to default factory settings



Activating walk test

When the Sensazone is in normal operation, point the ICU at the Sensazone and press the **1** () button. The Sensazone will flash green every time it detects movement. This confirms that the unit is operating as it should be. After 2 minutes of no movement, the sensor returns to normal operation. The product must be put into ICU configuration mode before any setting can be configured.

Activating cleaning mode

Point the ICU at the Sensazone (in normal operation mode) and press the **C** clean button. This will lock the solenoid valve(s) open or closed.

- 1) Lock open indefinitely (steady green LED)
- 2) Lock closed indefinitely (steady red LED)
- 3) Lock closed for 10 minutes (steady amber LED)
- 4) Normal operation (LED out)

Repeatedly pressing the clean mode will cycle through the 4 states. If a delay of 4 seconds occurs after pressing the clean button, the valve(s) remain in that state. To return to normal operation press the clean button 4 times.

Entering configuration mode

Point the ICU towards the Sensazone sensor and press the  configuration button. Activation is most effective when the configuration button is held down as the ICU is brought close to the sensor.

It can take up to 3 seconds for the product to sense the ICU. The Sensazone will return to normal operation if there are no button presses for 30 seconds.

Configuring sensor sensitivity (range)

Enter into configuration mode. Point the ICU at the Sensazone and press the **1** () button: the sensor blinks green once. Decrease or increase the sensor range by pushing the  and  buttons respectively. The sensor blinks green every time the  or  is pressed and blinks red when the maximum value is reached. Press the **OK** button to verify the sensor setting.

Single flash: minimum sensitivity setting.

Double flash: medium sensitivity setting.

Triple flash: maximum sensitivity setting.

Save setting and exit the ICU configuration mode by pressing the **SAVE** button. The sensor will display constant green for 5 seconds and then constant amber for 10 seconds. To exit without saving press the **QUIT** button.

NB: Changing sensor sensitivity will only take effect on the individual sensor, other sensors in the system will keep their range.

Configuring light threshold*

Enter into configuration mode. Point the ICU at the Sensazone and press the **2** ; the sensor blinks green once. Decrease or increase the light threshold by pressing the  and  buttons respectively. The sensor blinks green every time  or  is pressed and blinks red when the minimum or maximum value has been reached. Press the **OK** button to verify the sensor light threshold setting; the sensor displays the current setting by flashing green.

Single flash: minimum sensitivity setting.

Double flash: medium sensitivity setting.

Triple flash: maximum sensitivity setting.

Save setting and exit the ICU configuration mode by pressing the **SAVE** button. The sensor will display constant green for 5 seconds and then constant amber for 10 seconds. To exit without saving press the **QUIT** button. The sensor will blink red for 1 second and then constant amber for 3 seconds.

NB: Changing light threshold will only take effect on the individual sensor, other sensors in the system will keep their light threshold settings.

Configuring fan run-on time*

Enter into configuration mode. Point the ICU at the Sensazone and press the **3** ; the sensor blinks green once. Decrease or increase the fan run-on time by pressing the  and  buttons respectively. The sensor blinks green every time  or  is pressed and blinks red when the minimum or maximum value has been reached.

Press the **OK** button to verify the sensor light threshold setting; the sensor displays the current setting by flashing green.

Number of flashes	1	2	3	4	5
Range (cm approx)	0	5	15	30	60

Save setting and exit the ICU configuration mode by pressing the **SAVE** button. The sensor will display constant green for 5 seconds and then constant amber for 10 seconds. To exit without saving press the **QUIT** button. The sensor will blink red for 1 second then constant amber for 3 seconds.

NB: The fan run-on time is in addition to the occupancy run-on time. Changing the fan run-on time will be common across sensors in the network.

* when SZ / LFC is connected.

Configuring occupancy (run-on) time

Enter into configuration mode. Point the ICU at the Sensazone and press the **4**  button: the sensor blinks green once. Decrease or increase the run-on time by pressing the  and  buttons respectively. The sensor blinks green every time the  or  is pressed and blinks red when the maximum value is reached. Press the **OK** button to verify the sensor setting; the sensor displays the current setting by flashing green.

Number of flashes	1	2	3	4	5
Run-on time (min)	5	10	15	20	30

Save setting and exit the ICU configuration mode by pressing the **SAVE** button. The sensor will display constant green for 5 seconds and then constant amber for 10 seconds. To exit without saving press the **QUIT** button. The sensor will blink red for 1 second then constant amber for 3 seconds.

NB: When multiple sensors are connected, changes to occupancy time will be common across all sensors in the network.

Activating the 12 hour hygiene cycle

Enter into configuration mode. Point the ICU at the Sensazone and press the **5** : The sensor blinks green once. Pressing the  and  buttons switches the hygiene function on or off respectively. Press the **OK** button to verify the setting; the sensor displays the current setting by flashing green.

Single flash: hygiene cycle OFF.

Double flash: hygiene cycle ON.

Save setting and exit the ICU configuration mode by pressing the **SAVE** button. The sensor will display constant green for 5 seconds and then constant amber for 10 seconds. To exit without saving press the **QUIT** button. The sensor will blink red for 1 second then constant amber for 3 seconds.

NB: Hygiene flush run-on time is 30 min, When connected to the interface module activating the hygiene cycle will be common across all sensors in the network.

Power loss (valve) setting

Enter into configuration mode. Point the ICU at the Sensazone and press the **8** : The sensor blinks green once. Select the power loss by pressing the  and  buttons respectively. The sensor blinks green every time  and  is pressed and blinks red when the minimum or maximum value is reached. Press  button to verify the power loss setting: the sensor displays the current setting by flashing green.

Single flash: Valves close in the event of power loss

Double flash: Valves open in the event of power loss

Triple flash: Valves remain in their present state in the event of power loss

NB: The power loss feature does not impact the lights and fans operation.

Save setting and exit ICU configuration mode by pressing the  button. The sensor will display constant green for 5 seconds and then constant amber for 10 seconds. To exit without saving press the  button. The sensor will blink red for 1 second and then constant amber for 3 seconds.

Reset to factory settings

Enter into configuration mode. Point the ICU at the Sensazone and press the **9**  Reset button: the sensor blinks green once. This returns all settings to the default factory settings.

To save the setting and exit ICU configuration mode press the  button. The sensor will display constant green for 5 seconds and then constant amber for 10 seconds. To exit without saving press the  button. The sensor will blink red for 1 second and then constant amber for 3 seconds. To activate the walk test and cleaning mode the Sensazone should be in normal operating mode.