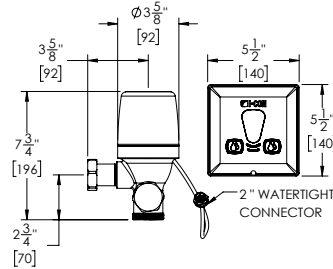
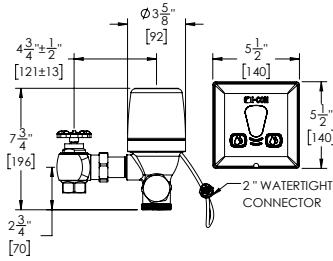
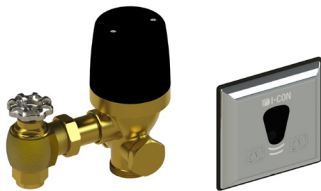


CONCEALED SENSOR FLUSH VALVES

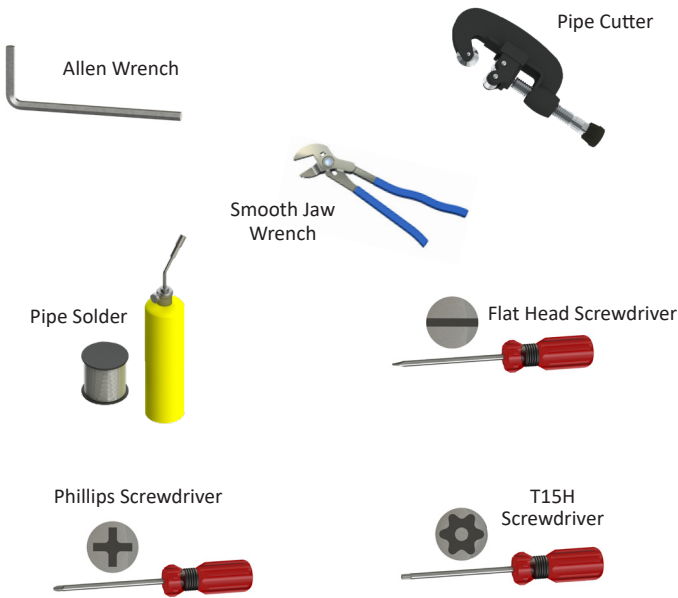
3200



3205



TOOLS NEEDED



PRIOR TO INSTALLATION

- All plumbing should be installed according to applicable state and local codes and regulations.
- Before installation of the I-CON flush valve, ensure the water closet or urinal fixture, drain line, and water supply line are properly installed.
- Water supply lines must be sized to allow for appropriate water flow for each fixture.
- Flush all water supply lines of any debris before making and connections.
- Do not use pipe sealant or plumbing grease on any components or couplings, with the exception of the control stop inlet.
- A smooth jaw or strap wrench should be used for installation to prevent damage to the finish of the I-CON flush valve and components.
- Check to ensure the “L” dimension specified on the flush valve packaging is correct for your application. “L” Dimension formula is provided below.
 “L” Dimension = Wall Thickness (to the nearest whole inch) + 2-3/4”
- The I-CON flush valve is designed to operate at water pressures ranging from 15 to 100psi (103 to 689kPa). The fixture type determines the minimum pressure required for the valve. Most low-consumption water closets are designed to operate with a minimum flowing water pressure of 25psi (172kPa).

LIMITED WARRANTY

I-CON Systems (I-CON) warrants that its commercial manufactured products are made of first-class materials, are free from defects, and are made to withstand normal use when installed properly. Products have the following warranty periods: 3 years for COBALT®, COBALT Pro®, and COBALT Connect® faucets and flush valves and I-CON EDGE® gateways. 1 year for all other products and decorative finishes. The warranty period begins on the date of purchase.

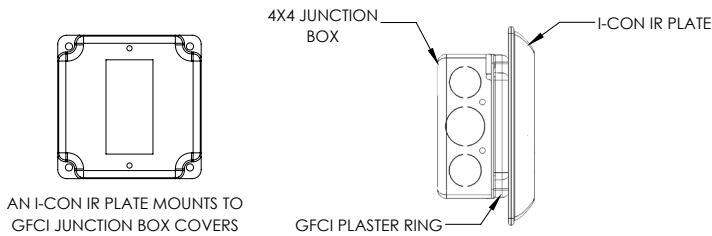
Products should be sent to I-CON at the customer’s expense. I-CON will take a reasonable amount of time to determine if the product is defective and whether it will be repaired or replaced. During the warranty period, items will either be (1) repaired at no charge using new replacement parts or (2) replaced with either a new similar product or one manufactured from new or serviceable used parts that are, at minimum a functional equivalent to the original. The course of action will be determined at I-CON’s discretion. Replacement products that are installed according to the instructions provided by I-CON will assume the remaining warranty of the original product. The limited warranty is only applicable to the product’s materials and workmanship. No claims for labor, transportation, or other incidental or consequential costs will be allowed. No extended warranties are available. THE SOLE AND EXCLUSIVE REMEDY FOR ANY DEFECTIVE PRODUCT IS LIMITED TO REPAIRING OR REPLACING THE DEFECTIVE PRODUCT. Before installing and using products, the purchaser is responsible for determining the products’ suitability and assumes all risks and liabilities related to the product.

This warranty only applies to persons and organizations that purchase I-CON products directly from I-CON or an authorized I-CON representative for the purpose of resale. This warranty does not apply to the life of batteries or other consumables.

ELECTRICAL BOX INSTALLATION - TYPICALLY COMPLETED DURING ROUGH-IN

Step 1

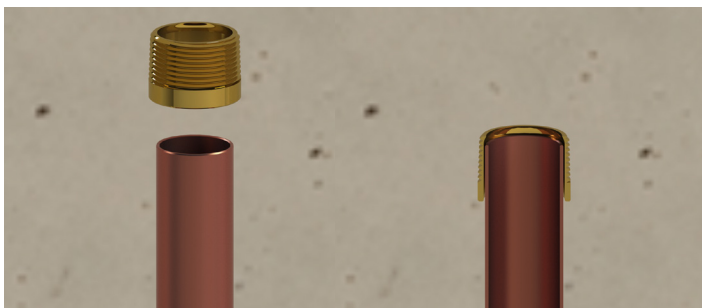
Install 2-gang electrical box (4" x 4" x 2-1/2"). The location will vary based on the rough-in. Refer to the rough-in drawings for specific mounting location. Use a GFCI plaster ring.



CONTROL STOP & OPTIONAL SWEAT SOLDER THREADED ADAPTER INSTALLATION (FOR WATER SUPPLY LINES THAT DO NOT HAVE MALE THREADS)

Step 1

Slide threaded adapter onto water supply pipe. Ensure full insertion.



Step 2

Sweat solder threaded adapter to water supply pipe.



Step 3

Apply sealing compound to threaded adapter. Tighten control stop onto threaded adapter using a smooth jaw wrench.



Step 4

Turn adjustment wheel on control stop **CLOCKWISE** to ensure control stop is closed. Turn on water supply and check for leaks.



FLUSHING SUPPLY LINE

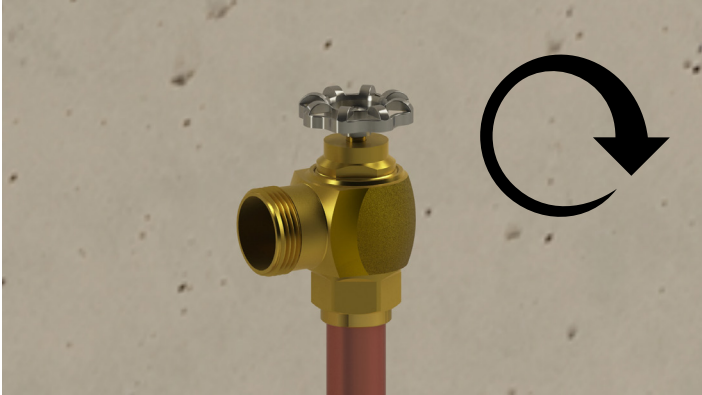
Step 1

Turn adjustment wheel **COUNTERCLOCKWISE** to open control stop. Flush out debris into bucket.



Step 2

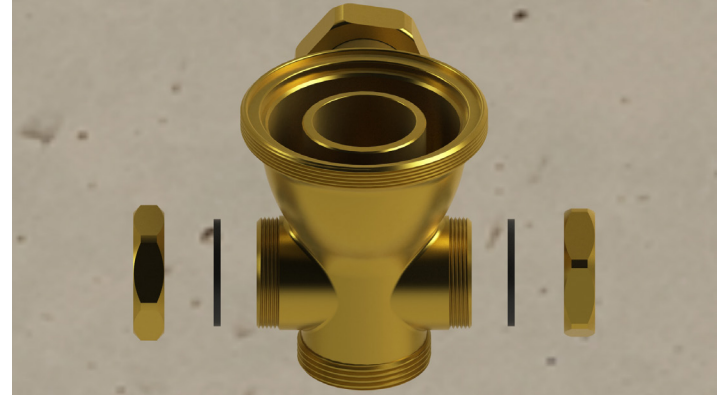
Turn adjustment wheel **CLOCKWISE** to close control stop.



FLUSH VALVE & VACUUM BREAKER INSTALLATION

Step 1

Install actuator cover on flush valve body.



Step 2

Lubricate tailpiece O-ring with water. Insert flush valve tailpiece into control stop.



Step 3

Assemble vacuum breaker tube and spud escutcheon assemblies as shown. **NOTE:** The vacuum breaker tube may need to be cut to fit properly. If using scored vacuum breaker, always cut from scored end and leave at least 1-1/4" (32mm) of scoring.



Step 4

Ensure flush valve is properly aligned with fixture and vacuum breaker tube. Tighten connections by hand.



Step 5

Once properly aligned, tighten connections with a smooth jaw wrench.



ProLAST® T-SEAL & FLUSH VALVE CAP ASSEMBLY INSTALLATION

Step 1

Insert ProLAST® T-Seal into flush valve body.



Step 2

Place square-profile O-ring into groove on bottom of flush valve cap assembly. Place flush valve cap assembly onto flush valve body.



Step 3

Tighten locking ring by hand to flush valve body.



SENSOR PLATE INSTALLATION

Step 1

Loosen set screw on plate. Remove cover by pulling out then up.



Step 1

Drill 1-1/2" hole through wall at the centerline of the wall sensor. Refer to the rough-in for specific mounting location.



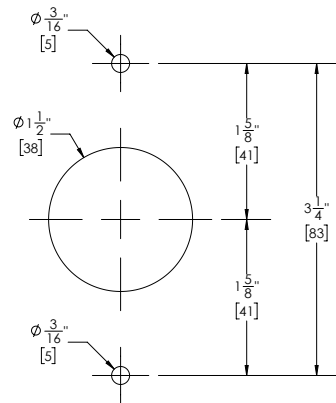
Step 2

Feed control module cable through junction box knock-out. Attach control module to junction box with provided screws.



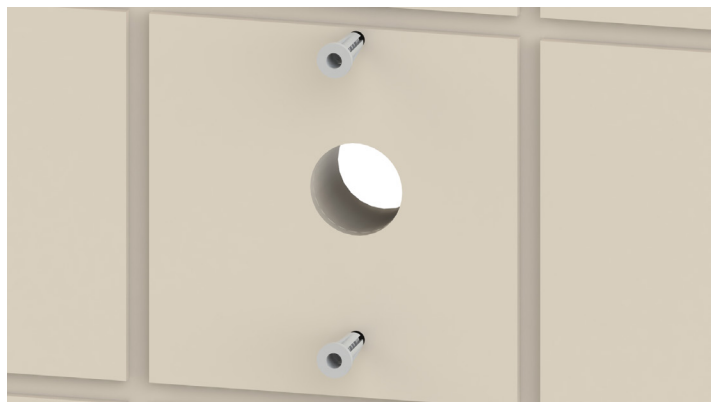
Step 2

Drill openings for wall anchors using 3/16 drill. See dimensional drawing. Insert wall anchors.



Step 3

Reattach and secure cover with set screw.



**WALL SENSOR INSTALLATION - INSTALLATION
WITHOUT ELECTRICAL BOX**

SENSOR PLATE INSTALLATION

Step 1

Loosen set screw on plate. Remove cover by pulling out then up.



Step 2

Feed control module cable through junction box knock-out. Attach control module to junction box with provided screws.



Step 3

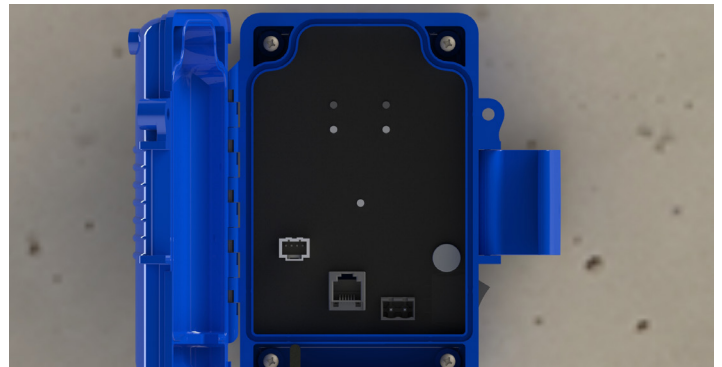
Reattach and secure cover with set screw.



INTERFACE MODULE INSTALLATION

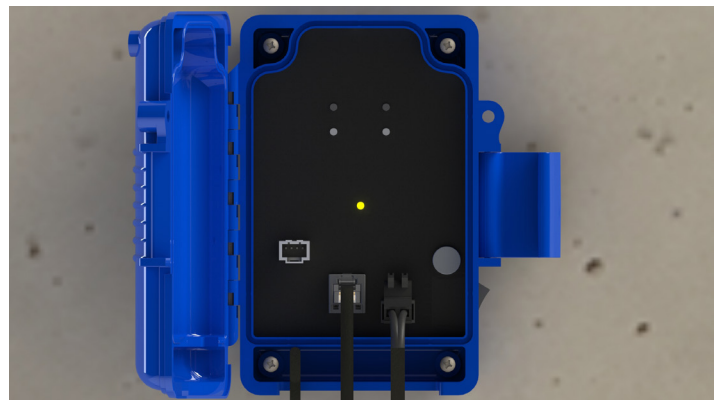
Step 1

Open interface module. Mount to flat surface in chase. Use wall anchors and screws provided. **NOTE:** Ensure solenoid cable can be easily plugged into the interface box.



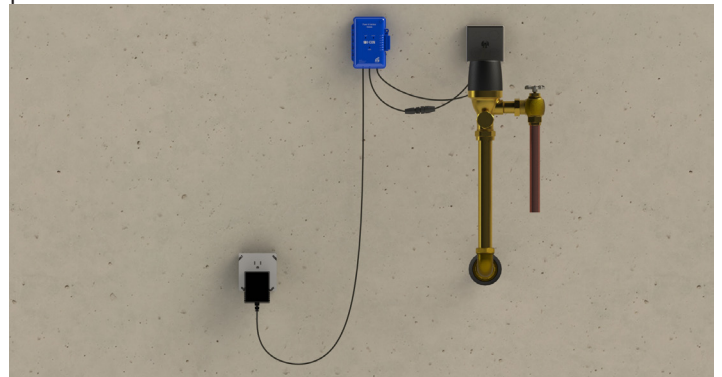
Step 2

Connect cables for pressure and temperature sensor, control module, solenoid, and power.



Step 3

Plug-in transformer. Power on interface module using external power switch. Close interface module.



ADJUSTING CONTROL STOP

Step 1

Turn adjustment wheel **COUNTERCLOCKWISE** 1/2 turn from closed position. Activate flush valve.



Step 2

To adjust flush valve, turn adjustment wheel in small increments. Activate flush valve after each adjustment. The proper flow rate should completely cleanse fixture without splashing water outside of fixture.

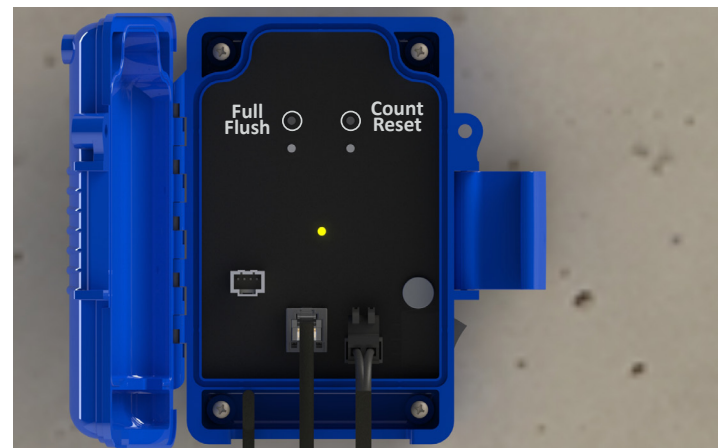
NOTE: The flow from the valve must never exceed the flow capacity of the fixture. If a valve failure should occur, the fixture must be able to accommodate a continuous flow from the valve.



CONTROL MODULE AND INTERFACE SETUP

NOTE: When powered and face plate is removed, control module automatically enters maintenance mode. While maintenance mode is active, a solid green light indicates that a user is detected. Control module exits maintenance mode when face plate is replaced or after 30 minutes. To re-enter maintenance mode, press any quick action button.

QUICK ACTION BUTTON DIAGRAM



AUTO-RANGE

To set range automatically, press and hold the auto range quick action button for 3 seconds. Place target at desired detection range within 5 seconds. Green light blinks every second during countdown. Sensor will lock on to target, indicated by solid green light. Green light will blink to confirm range is set.

NOTE: Test range with targets of various colors and textures for accuracy. Ensure foreign objects, such as stall doors and mirrors, are not detected.

PROFILE

To view current profile, press and release profile quick action button. Current profile number is displayed through LED illuminations and the digital display. To change profile, press and release profile quick action button again. Continue to press and release profile quick action button until desired profile is displayed. Press and hold profile quick action button for 3 seconds to set profile. Blue lights will flash to indicate profile was saved.

Display	Profile	Flush Volume
P1 - Red & Blue	Profile 1	10% Water Savings
P2 - Blue	Profile 2	5% Water Savings
P3 - Green & Blue	Profile 3	Standard Flush Volume

ACTIVATE

Activates a full flush of the flush valve.

ACTIVATION COUNT RESET

The activation count can be monitored by using the on-board display. It will display AC (Activation Count) followed by the number of activations since the last rebuild. A red LED blinking alarm will begin once the activation count has surpassed 250,000 cycles. At this time, it is recommended to rebuild the valve. To reset this alarm, press and hold the activation count reset for 5 seconds. The red LED will flash indicating the count has been reset to 0.

INSTALLATION COMPLETE

PROGRAMMING QUICK REFERENCE



When adjustment LEDs are illuminated, their corresponding values appear on the display. Make adjustments as necessary. See standard operations guide for more information.

Range adjusts the maximum range used to detect a user. The range can be adjusted from 6-54 inches.

Exit adjusts the amount of time an object must not be detected before the valve considers the user to have exited. The range can be adjusted from 0-15 seconds.

Run adjusts the water volume savings in percent.

Redetect adjusts the amount of time a user must be out of range before another user can be detected. The range can be adjusted from 0-60 seconds.

CARE OF CHROME PLATED SURFACES

DO NOT use commercial cleaning compounds to clean flush valve. Abrasive or chemical cleaners may dull luster and attack finishes. Use mild soap and water and then dry with a clean nonabrasive cloth or towel. A microfiber cloth is recommended. Protect flush valve from any splattering when cleaning the floor, tile, or fixtures. DO NOT USE ACID OR ALCOHOL BASED CLEANERS.