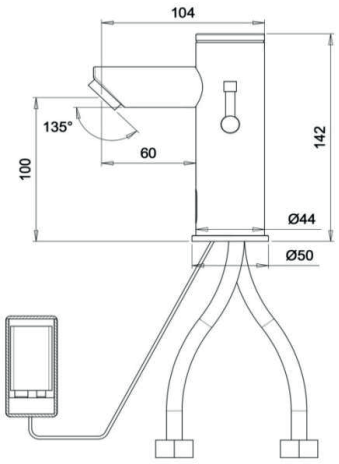
# Datablad




## Model: STERN Smart 1000B

Produkt: SMART berøringsfrit håndvaskarmatur.

| | | |
|---|---|---|
| **Varianter:** | 704380.004 | Krom med blandevælger |
| | 704380.017 | Satin / Stålfinish med blandevælger |
| | 704380.106 | Sort med blandevælger |
| | 704380.117 | 316 stål med blandevælger |
| | 235500-B | Krom med 38°C begrænsning med blandevælger |
| | 235100 | Krom uden blandevælger |
| | 235100-SS | Satin / Stålfinish uden blandevælger |
| | 235510 | Krom med lang tud (90 mm) og blandevælger |

Blandingsbatteri for håndvask opfylder følgende kriterier:

- Berøringsfrit håndvask armatur i messing med krom overflade eller massiv rustfrit stål
- Fast tud med 60 mm fremspring. Højde på udløb 100 mm. 135° udad vinklet flexperlator.
- Med eller uden temperatur greb/blandevælger.
- Inklusive 9V batteri (batteribox 06530089) eller 230 V transformer (06522094)
- Funktionsdygtig fra 0.5 til 8 bar
- Godkendt til 70°C. Testet op til 90°C
- Hygiene skyl
- Mulighed for fjernbetjening til indstilling af alle perametre (7100005)
- Legionella skyl via fjernbetjening
- Spare-perlator 6 l/min (5186306)
- Mulighed for IP 67 godkendt batteripakke (06530001)
- Nem service via én skrue i toppen.
- Rengøringsvenligt design
- Leveres med flexslanger
- Mulighed for berøringsfri sæbe dispenser i samme design (235920 / 235920SS)
- Monterings huldiameter Ø 28-34 mm. Rosette Ø 50 mm.
- Støjgruppe: 2
- Trykgruppe: 300 kPa
- 2 års garanti på bevægelige dele
- 10 års reservedelsgaranti

# **SMART 1000** TOUCH-FREE ELECTRONIC LAVATORY FAUCET

## SPECIFICATIONS

Touch-free electronic faucet for deck-mounted installations. Activated by infrared sensor. With mixer for water temperature adjustment for hot and cold water. Filters included. Chrome plated body, other finishes available. Battery version includes a low battery indicator. Latching solenoid valve is located above deck inside the product for added vandal protection. Adjustable setting by remote control: sensor range, security time, delay in, delay out, on-off and reset to factory settings. 24 hour mandatory hygiene flush available upon request.

## OPERATION

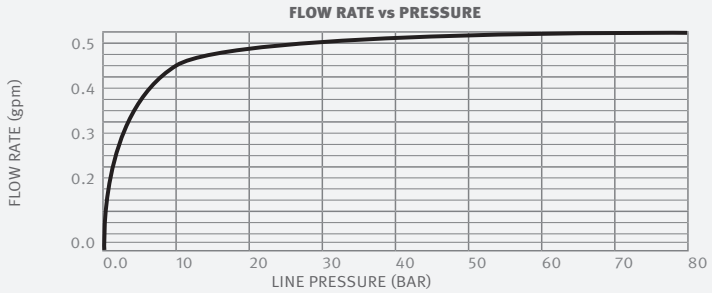
Touch-free electronic faucet. The faucet is automatically activated when the users place their hands in the sensor range and stops when the users remove their hands.

## APPLICATION

Deck-mounted faucets. Combining an elegant minimalist design with anti-vandal features. Easy installation. Long lasting even in the harshest installation sites. Helps washrooms stay clean and saves water. Prevents cross contamination. Ideal for stadiums, train and bus stations and highway rest stops.

## PRODUCT AT A GLANCE

| | |
|---|---|
| Installation | Deck-mounted |
| Power Supply | • 9V battery • 9V transformer |
| Operating pressure | 0.5-8.0 bAR / 7.0-116.0 PSI |
| Water supply | Hot and cold water |
| Water flow | 6 LPM / 1.58 GPM - SSR PCA stream |
| Water Saving Options | 4 LPM / 1 GPM ; 3 LPM / 0.8 GPM 1.89 LPM / 0.5 GPM ; 1.3 LPM 0.35 GPM - PCA spray |
| Water temperature | 70°C Maximum |
| Security Time | Auto shutoff after 90 seconds. adjustable by remote control |

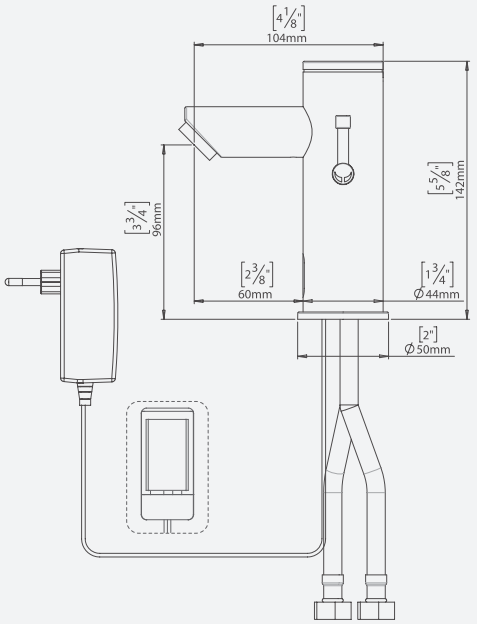



## ORDERING INFORMATION

| MODEL | CODE | POWER | ADDITIONAL FEATURES |
|---|---|---|---|
| SMART 1000 B | 235500 | 9V BATTERY | With mixer for water temperature adjustment |
| SMART 1000 E | 235600 | 9V transformer | |

## OPTIONS

| OPTION | CODE |
|---|---|
| Remote control | 07100005 |
| Matching battery-powered soap dispenser | 235920 |
| Matching transformer-powered soap dispenser combination | 235900 |
| Lead free versions | Upon request |




STERN ENGINEERING LTD.

ADVANTAGES

- LEED RATING
- 24 HOURS OPTIONAL HYGIENE FLUSH
- SOAP AND WATER
- GERM FREE
- ADJUSTABLE SETTINGS
- EASY TO INSTALL
- ADA DESIGNED

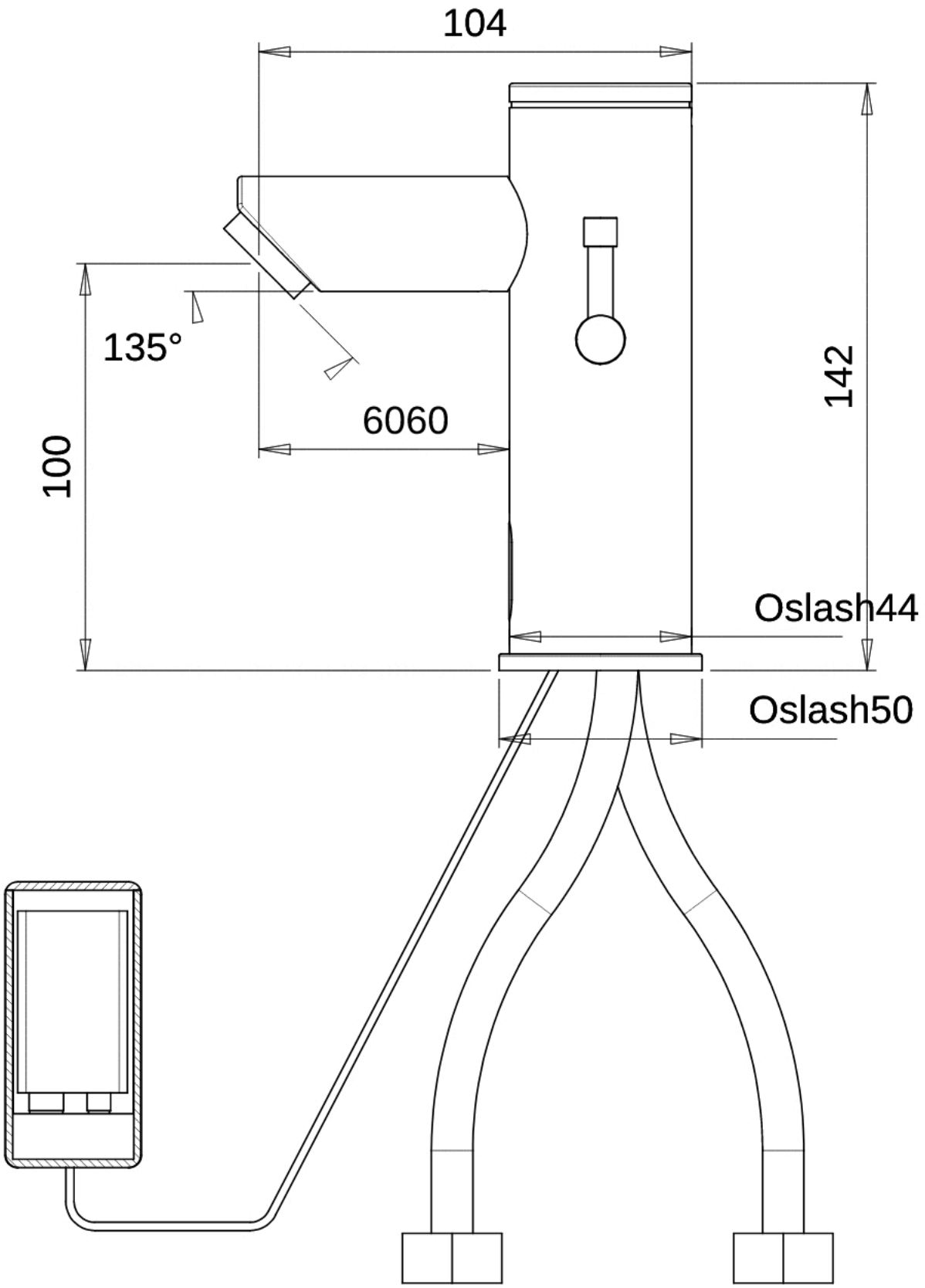
APPROVALS

ILGBC


777 Passaic Avenue
Clifton NJ, 07012
USA: sternusa@sternfaucets.com
International: info@sternfaucets.com
Toll Free: 1-800-4364410

www.sternfaucets.com

# SMART 1000B




Y.STERN ENGINEERING LTD.

STERN ENGINEERING LTD.

# SMART SERIES

## ELECTRONIC LAVATORY FAUCET

INSTALLATION AND MAINTENANCE GUIDE

# INDEX


| | |
|---|---|
| 1 | TECHNICAL DATA |
| 2-3 | PACK CONTENTS |
| 4 | PRE-INSTALLATION INFO |
| 5-7 | INSTALLATION |
| 8-9 | SETTINGS ADJUSTMENT |
| 10 | BATTERY REPLACEMENT (BATTERY MODELS ONLY) |
| 11 | SPARE PARTS LIST |
| 11 | MAINTENANCE |
| | Filters cleaning instructions |
| | Care and cleaning of chrome and special finishes |
| 12 | LIMITED WARRANTY |
| 13 | TROUBLESHOOTING |



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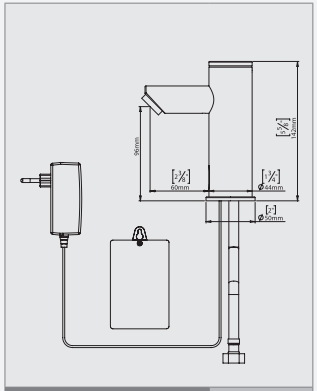
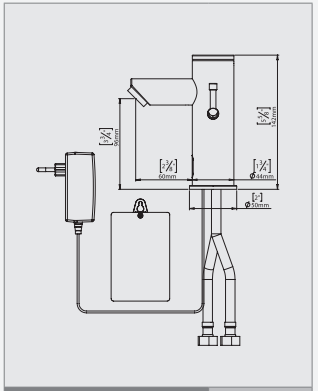
| | |
|---|---|
| **Power supply:** | 6 X 1.5 V batteries or 9V transformer |
| **Recommended water pressure:** | 0.5-8.0 bar (7-116 PSI)<br>With water pressure of more than 8 bars,<br>use a pressure reducing valve for reduction. |
| **Preset sensor range:** | 220 mm Adjustable. |
| **Minimum sensor range:** | 80 mm |
| **Maximum sensor range:** | 300 mm |
| **Security time:** | 90 seconds |
| **Hot water temperature:** | Max 70˚C |

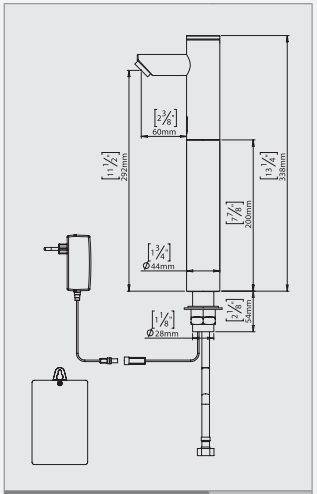
# TECHNICAL DATA



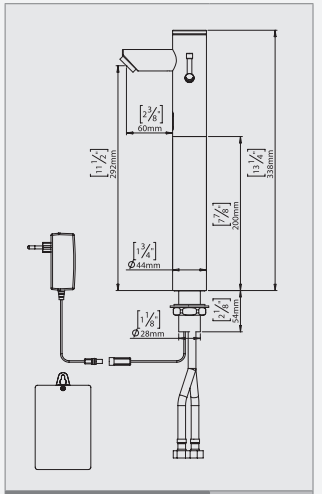
| | |
|---|---|
| Smart B | 235100 |
| Smart E | 235200 |



| | |
|---|---|
| Smart 1000 B | 235500 |
| Smart 1000 E | 235600 |



| | |
|---|---|
| Smart Plus B | 235150 |
| Smart Plus E | 235250 |

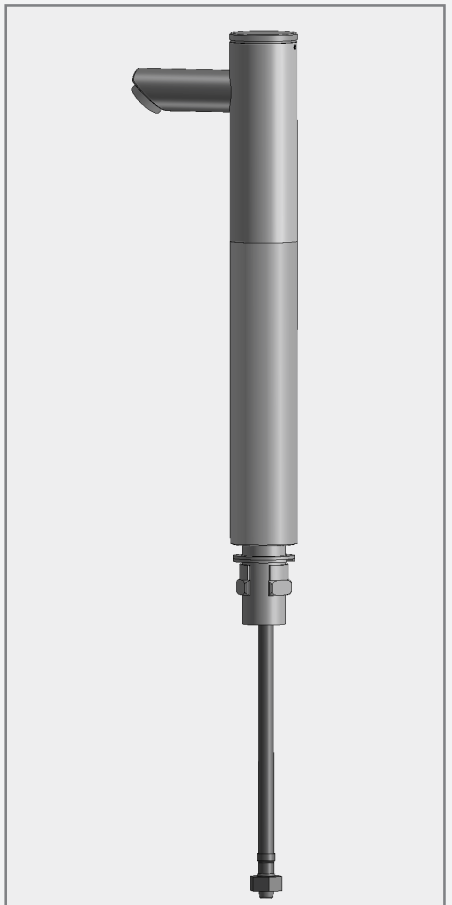


| | |
|---|---|
| Smart 1000 Plus B | 235550 |
| Smart 1000 Plus E | 235650 |

# PACK CONTENTS SMART

Familiarize yourself with the part names and confirm that the parts are included.

1 X FAUCET AND ATTACHMENTS



TALL (PLUS) VERSIONS

| B VERSION | E VERSION |
|---|---|
| | |
| Battery box for 6 x 1.5V batteries | 9V transformer |

1 X FILTER

1 X ALLEN KEY



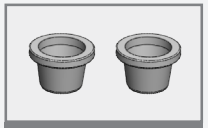
# PACK CONTENTS SMART 1000

Familiarize yourself with the part names and confirm that the parts are included.

1 X FAUCET AND ATTACHMENTS

TALL (PLUS) VERSIONS

| B VERSION | E VERSION |
|---|---|
| | |
| Battery box for 6 x 1.5V batteries | 9V transformer |



2 X FILTER

1 X ALLEN KEY

# PRE-INSTALLATION INFO

### CHECK CONTENTS

Separate all parts from the packaging and check each part with the “Pack contents” section.

Pay attention to the different models variations.

Make sure all parts are accounted for before discarding any packaging material.

If any parts are missing, do not attempt to install your electronic faucet until you obtain the missing parts.

### WARNINGS

Do not install facing a mirror or any other electronic system operated by an infrared sensor.

To prevent reflection problems, it is recommended to keep a minimum distance of 1.50 meters between the faucet and any other objects.

### PREPARATION FOR INSTALLATION

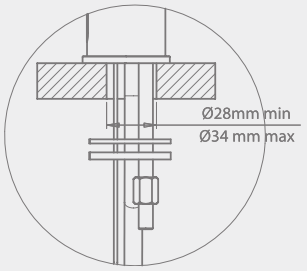
Flush water supply lines thoroughly before installing the faucet. Do not allow dirt, Teflon tape or metal particles to enter the faucet.

Shut off water supply.

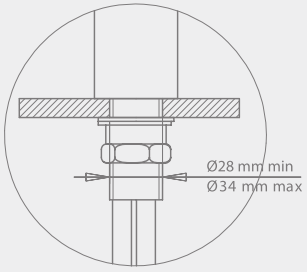
Installations in Australia and New Zealand must comply with the requirements of AS/NZS 3500.

IMPORTANT: All plumbing is to be installed in accordance with applicable codes and regulations.

### RECOMMENDED HOLE SIZE




STANDARD VERSIONS



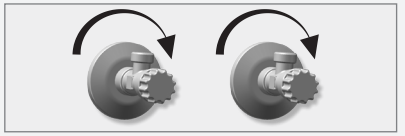

TALL VERSIONS



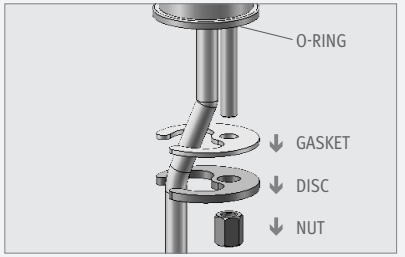
# INSTALLATION

### STEP 1 – PREPARATION FOR MOUNTING THE FAUCET

1. Shut off the water supply.

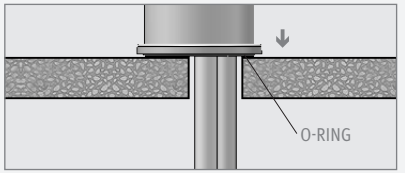


2. Remove the hexagonal nut, the disk and the gasket. Do not remove the O-ring from the base of the faucet.

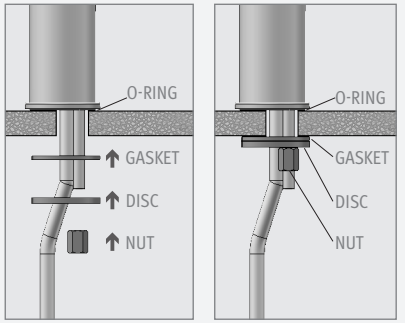



### STEP 2 – INSTALLING THE FAUCET

1. Place the faucet with O-ring into the hole in deck or lavatory. Make sure the O-ring is located between the deck or lavatory and the bottom of the faucet.

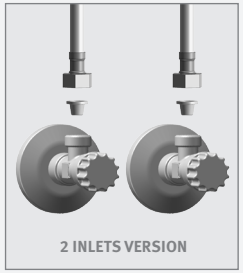


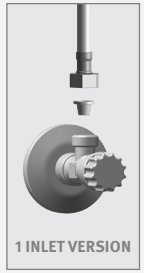

2. Slide the gasket, disk and hexagonal nut over the flexible hose and secure the faucet into place.



## STEP 3 – CONNECTING THE WATER SUPPLY

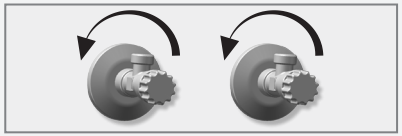
1. Connect the flexible pipe to the water supply.
   *For models with temperature control connect the red flexible pipe to the hot water supply and the blue flexible pipe to the cold water supply.*


2 INLETS VERSION


1 INLET VERSION

**MAKE SURE THAT THE FILTER(S) IS/ARE INSTALLED BETWEEN THE FLEXIBLE PIPE AND THE SHUT OFF VALVE (ANGLE VALVE) (NOT SUPPLIED).**

2. Turn on the central water supply and the shut-off valves (angle valves) and check for leaks.

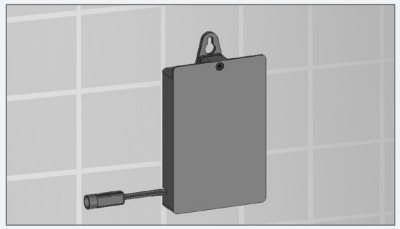






## STEP 4 – CONNECTING THE POWER SOURCE

1. **BATTERY VERSION**
   Install the battery box at the wall underneath the sink using the two sided adhesive foam tape. The cable connection must point down. (You can use an optional extension cable in order to assemble the battery box up to 10ft. away from the sink.)



**TRANSFORMER VERSION**
Plug the transformer into the electricity socket and connect the connectors.

2. In order to avoid entering into the adjusting mode, wait 10 seconds before operating the faucet. If the range is unsatisfactory, refer to the section titled “settings adjustment.

NOTE: This model includes a special aerator that allows you to adjust the water stream direction on site in order to prevent water splashing if needed. To change the angle of the water stream, simply move the adjustable tilting plate by pressing it smoothly.

***ATTENTION! the aerator is tightened to prevent removal by hand.***

# SETTINGS ADJUSTMENT

**Adjusting the settings with the remote control**

If necessary, the sensor settings can be adjusted as following:

Shut off the water supply. In order to adjust the sensor with the remote control, hold the remote control straight in front of the sensor in a distance of about 6-8" (15-20cm). Choose the function you want to adjust by pressing once on one of the function buttons. After pressing once on a specific function button, a quick flashing of the LED at the front of the sensor will occur. At this stage, you can change the setting by pressing the (+) or the (-) buttons, every push will increase or decrease one level. After finishing the adjustment, turn the water supply back on.

| | |
|---|---|
| RANGE | DETECTION RANGE: Only if necessary, use the remote control to adjust the sensor range as follows:<br>Press the RANGE button. Wait until a quick flashing of the LED in the sensor eye is perceived. Then, press + to increase the one level and – to reduce it every push will increase or decrease one level. |

NOTE: Once you have changed the detection range with the remote control, this distance will be remembered by the sensor, even if the power source is disconnected.



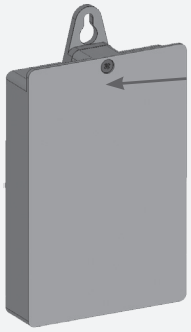
# SETTINGS ADJUSTMENT

| | |
|---|---|
| IN | DELAY IN TIME: If required, the delay in time can also be modified as follows:<br>Press the IN button. Wait until a quick flashing of the LED in the sensor eye is perceived. Then, press + to increase the delay in time and – to reduce it. |
| OUT | DELAY OUT TIME: This button allows modifying the flushing start time after the user moves away from the product. A delay out time close to o will save more water. An increased delay out time will make the user experience more comfortable.<br>If required, the delay out time can be modified as follows:<br>Press the OUT button. Wait until a quick flashing of the LED in the sensor eye is perceived. Then, press + to increase the delay out time and – to reduce it. |
| | TEMPORARY OFF FUNCTION: This function is ideal to perform any kind of activity in front of the sensor without operating the system (for example, cleaning).<br>The product will remain shut for 1 minute when this button is pressed once. To cancel this function and to return to normal operation press the On/Off button again or wait 1 minute. |
| RES | RESET BUTTON: This function restores all the factory settings except for the sensor range. If required, press the Reset button and without releasing it, press the + button once. |
| SEC | SECURITY TIME: The Security time, prevents continuous flushing of water due to reflections or vandalism. By default, if the sensor is covered for more than 90 seconds the water flow will shut automatically. To resume regular operation any obstruction must be removed.<br>Press the SEC button. Wait until a quick flashing of the LED of the sensor eye is perceived. Then, press + to increase the security time and – to reduce it. |
| | 24 HOUR HYGIENE FLUSH: This model includes a 24 hours hygiene flush which is disabled. To activate the hygiene flush, press the clock button. Wait until a quick flashing of the LED in the sensor eye is perceived. Then press + to activate the hygiene flush. To disable it again, press – to deactivate it. |
| | COMFORT FLUSH: If your model includes a COMFORT FLUSH setting, it can be activated by pressing the flush button.<br>When the button is pressed, one blink of the blue in the sensor eye is perceived. The pre-programmed flush cycle will take place then.<br>The Comfort flush cannot be interrupted or deactivated by pressing any button until it is over. |

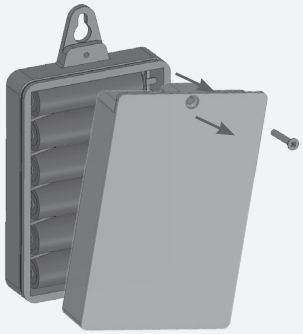
# BATTERY REPLACEMENT

When the battery weakens, the LED indicator light will blink at a constant rate.
The battery must be replaced within two weeks.

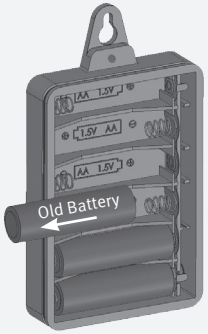
To replace the battery in Smart B\ Smart 1000 B models:



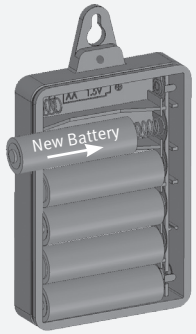
1. Unscrew the holding screw



2 .Carefully open the battery box

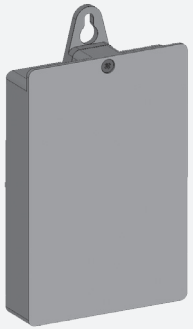



3 .Remove the old batteries




4. Replace the used batteries with a new 6 X 1.5V batteries (Lithium battery is recommended).

5. Close the box



IMPORTANT: Spent batteries should not be disposed of with normal household waste. Contact your local authority for information on waste disposal and recycling.

# SPARE PARTS LIST

| | |
|---|---|
| Seals and Screws Kit (Smart B/E/1000B/1000E) | 07210007 |
| 10-Pack Sensor Kit (Smart B/E/1000B/1000E) | 07220253 |
| Seals and Screws Kit (Smart Plus models) | 07210022 |
| 10-Pack Sensor Kit (Smart Plus models) | 07220328 |
| Cover Kit | 07270004 |
| 10-Pack Solenoid Valve Kit | 07232005 |
| Mixer Handle kit (Smart 1000 models) | 07260002 |
| Battery box for 6 x 1.5V AA batteries | 06530091 |
| Transformer (EU plug) | 06522094 |
| Remote Control 13B (Optional) | 07100005 |
| Soap & Water Remote Control (Optional) | 07100014 |

# MAINTENANCE

**Filter cleaning instructions**

This faucet is provided with one / two stainless steel filter(s) preventing foreign particles to enter the lines. If the water flow has decreased, this can be because the filter(s) is/are clogged. The filter(s) can be cleaned as follows:

1. Shut-off the water shut off valve (angle valve).
2. Disconnect the flexible pipe/s.
3. Remove the filter(s) and wash it/them under running water.
4. Reassemble the parts.
5. Make sure that there is no water leakage.

**Care and cleaning of chrome and special finishes**

**DO NOT** use steel wool or cleansing agents containing alcohol, acid, abrasives, or the like. Use of any prohibited cleaning or maintenance products or substances could damage the surface of the faucet. For surface cleaning of faucet use ONLY soap and water, then wipe dry with clean cloth or towel. When cleaning bathroom tile, the faucets should be protected from any splattering of harsh cleansers.

# LIMITED WARRANTY

Y. Stern Engineering Ltd. warrants that its electronic products will be free of defects in material and workmanship during normal use for two years from the date the product is purchased.

If a defect is found in normal use, Y. Stern Engineering Ltd. will, at its discretion, repair, provide a replacement part or product, or make appropriate adjustments. Damage caused by accident, misuse, or abuse is not covered by this warranty. Improper care and cleaning will void the warranty. Proof of purchase (original sales receipt) must be provided to Stern Engineering Ltd. with all warranty claims.

Stern Engineering Ltd is not responsible for labor charges, installation, or other incidental or consequential costs other than those noted above. In no event shall the liability of Stern Engineering Ltd. exceed the purchase price of the product.

If you believe that you have a warranty claim, contact your Stern Distributor, Dealer or Plumbing Contractor. Please be sure to provide all pertinent information regarding your claim, including a complete description of the problem, the product, model number, the date the product was purchased, from whom the product was purchased and the installation date. Also include your original invoice.

Y. STERN ENGINEERING AND/OR SELLER DISCLAIM ANY LIABILITY FOR SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES. This warranty excludes product damage due to installation error, incorrect maintenance, wear and tear, battery, product abuse, or product misuse, whether performed by a contractor, service company, or the consumer. This warranty does not cover product damage caused by the following:

- Incorrect installation.
- inversions of supply pipes.
- Pressures or temperatures exceeding recommended limits.
- Improper manipulation, tampering, bad or lapsed maintenance.
- Foreign bodies, dirt or scale introduced by the water supply or soap tank.
- Use of the soap outside of viscosity specifications.
- Alteration of the original soap/foam dispenser components (including pipes).



# TROUBLESHOOTING

| PROBLEM | INDICATOR | CAUSE | SOLUTION |
|---|---|---|---|
| No water coming out of the faucet: | 1. Sensor flashes continuously when user's hands are within the sensor's range. | Low battery. | Replace battery |
| | 2. LED in the sensor does not flash once when user's hands are within the sensor's range. | 1. Range is too short. | Increase the range |
| | | 2. Range is too long. | Decrease the range |
| | | 3. Battery is completely used up | The battery must be replaced. |
| | | 4. Unit is in "Security Mode"* | |
| | | 5. Sensor is picking up reflections from the washbasin or another object. | Eliminate cause of reflection. |
| | 3. LED in the sensor flashes once when user's hands are within the sensor's range. | 1. Connectors between the electronic unit and solenoid are disconnected. | Connect the electronic unit connectors to the solenoid. |
| | | 2. Debris or scale in solenoid. | Unscrew solenoid, pull out the plunger and the spring from the solenoid and clean them. Use scale remover material if needed. When replacing the plunger, please make sure that the spring is in vertical position. |
| | | 3. The central orifice in the diaphragm is plugged or the diaphragm is torn | Clean the orifice or replace diaphragm. |
| | | 4. The water supply pressure is higher than 8 bar. | Reduce the supply water pressure. |
| | | 5. The water supply pressure is under 8 bars and yet the pressure in the faucet's body is higher. This situation could be caused by a sudden increase in the water supply pressure that the back check prevents from dropping, even after water supply pressure drops under 8 bars. | Shut off water supply and unscrew one of the flexible pipes in order to reduce the pressure that blocks the product. |
| Water flow from spout does not stop: | 1. Sensor flashes once when user's hands are within the sensor's range. | Debris or scale in diaphragm | Clean the orifice or replace diaphragm. |
| | 2. LED in the sensor does not flash once when user's hands are within the sensor's range. | 1. Sensor is dirty or covered.** | Clean or eliminate case of interference. |
| | | 2. Sensor is picking up reflections from the washbasin or another object. | Decrease the range or eliminate cause of reflection. |
| Water flow diminished | | Filter or aerator is clogged | Remove, clean, re-install |

* "Security Mode": If the sensor is covered for more than 90 sec. the faucet will automatically shut off water flow. To return to normal operation remove any blockage.

** In this case, the water flow will stop anyway after 90 seconds because of the security time.

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