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| PROJECT | | REF | | REV | ITEM CODE | |
| LOCATION | | DATE | | | PAGE | |

SANITARY WARE SPECIFICATION SHEET

| | | |
|--------------------------------------|--|-----------------------|
| Item Descriptions | Stern (Israel) "Extreme CS" Chrome plated wall-mounted sensor faucet in 9V DC Supply with IP67 waterproof battery box | Illustration/ Drawing |
| Dimensions | 195 mm Long | |
| Model | Extreme CS B | |
| Code Number | 237801 | |
| Finish | Chrome Plated | |
| Supplier | Acme Sanitary Ware Co. Ltd Mr. Eric Wong/ Mr. Wilson Hung | |
| Contact Tel/Fax E-mail Website | (852) 2388-7171 / (852) 2710-8012 acme@acmesanitary.com.hk www.acmesanitary.com.hk | |

EXTREME CS B Ref # 237801

Touch-free wall-mounted electronic faucet. For cold or premixed water. Activated by concealed sensor built into the spout. Chrome plated body, other finishes available. Includes a low battery indicator. The Adjustable settings by remote control: sensor range, security time, delay in, delay out, on-off and reset to factory settings.

Application:

Wall-mounted faucet. Combines a minimalistic design with vandal resistant features. Helps washrooms stay clean and saves water. Ease installation. Long lasting even in the harshest installation sites. Ideal for shopping malls, sport facilities and entertainment centers.

Use:

With Proximity sensor: The faucet will automatically activate when users place their hands in the sensor range and will stop once the users remove their hands.

With Wave on-off sensor: The faucet will activate for an 8-second flow time when users place their hands in close proximity to the sensor. Removing the hands stops the faucet operation. Flow time is adjustable on site.

| PRODUCT AT A GLANCE | | |
|----------------------|---|---|
| Installation | Duct Concealed | |
| Power Supply Options | <ul style="list-style-type: none"> • IP67 Dual power input box with a 9V battery • 9V Transformer | |
| Operating pressure | 0.5 - 8.0 BAR (7 - 116 PSI). With a pressure over 8 bar, use a pressure reducing valve. | |
| Water supply | Cold or premixed water | |
| Flow time | 8 seconds. Adjustable with the Stern remote control | |
| Water Saving options | 4 LPM / 1.0 GPM - PCA spray | |
| Water temperature | 70°C Maximum | |
| Security Time | Auto shutoff after 90 seconds. adjustable by remote control | |
| ORDERING INFORMATION | | |
| MODEL | CODE | POWER |
| Extreme CS WM E | 237800 | IP67 Dual power input box with a 9V battery |
| Extreme CS WM B | 237801 | 9V battery |

- Installation:**
Wall mounted duct concealed
- Water supply:**
Cold or premixed water (1 inlet)
- Water temperature:**
Max 70 °C
- Operating pressure:**
0.5 - 8.0 bar
- Power source:**
IP67 battery box

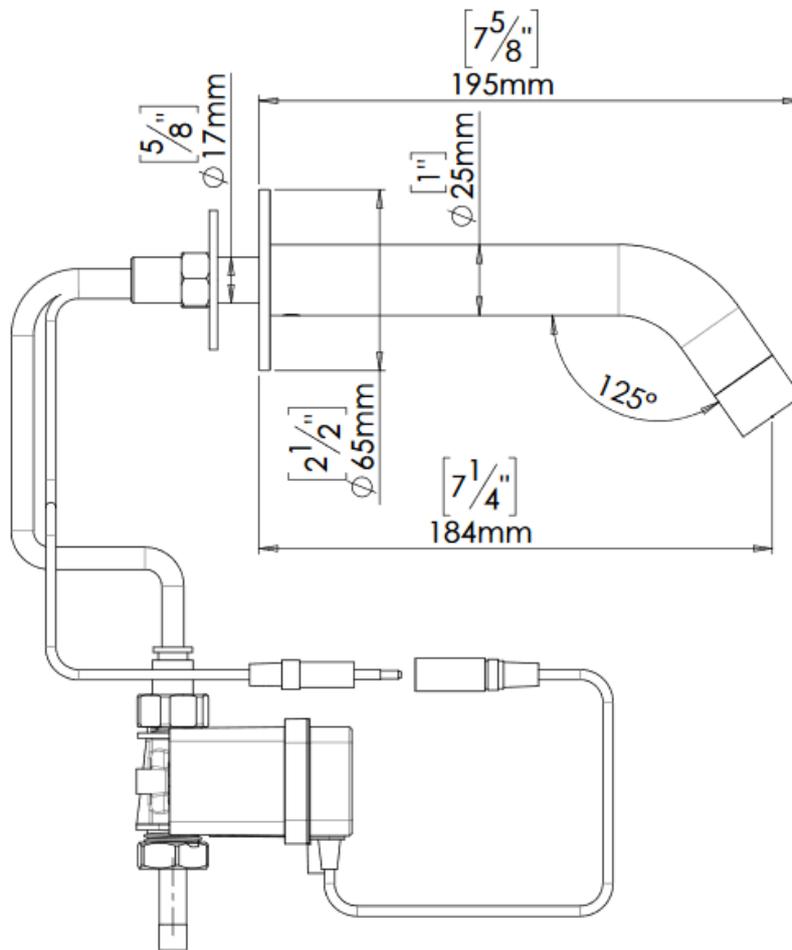


* All information of the above is for the reference only. No prior notice is made if any changes.



SPARE PARTS LIST

Extreme CS B (237801)



SPARE PARTS

| | |
|--|----------|
| 10-Pack Sensor Kit | 07220412 |
| 10-Pack Solenoid valve kit Extreme CS | 07232005 |
| Dual Power Input Box | 06530042 |
| 10-Pack Diaphragm | 04500048 |
| Remote Control (Optional) | 07100005 |
| Soap & Water Remote Control (Optional) | 07100014 |



Note: In order to locate the relevant spare part, please check the corresponding parts and part number in the drawing. Minimum order quantity will be required.

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水務署
Water Supplies Department

總部 Headquarters

香港灣仔告士打道七號入境事務大樓 48 樓

7 Gloucester Road, Wan Chai, Hong Kong



本署檔號
Our ref.
來函檔號
Your ref.

020 T/J(778/2020)

電話 :
Tel.
傳真 : 2824 0578
Fax.

11 August 2020

**Approval of "STERN" Sensor Taps
(General Acceptance No. C20200659)**

Your letter ref. BE/L20402/20 dated 23 June 2020 and subsequent clarification by email up to 3 August 2020 refer.

Having considered the test report ref. J25247Arl issued on 16 July 2020 by Nutek Systems (HK) Ltd. and WRAS certificate, this Authority accepts that the fittings described below comply with, and their use when correctly installed does not contravene, the Waterworks Ordinance and Regulations.

Name of Manufacturer: Y Stern Engineering (1989) Ltd

Country of Origin: Israel

Brand: Stern

Details of Fittings: 1/2" Wall mounted sensor tap with 1 no. of flexible hose approved by UK's WRAS under ref. 1704079

Model: 237801 and 237800

Body Markings: *Stern*

Expiry Date: 30 April 2022



This Authority hereby permits the use of the above fittings in fresh water plumbing systems subject to full adherence to Waterworks installation requirements. In particular, you are required to draw your customers' attention to the following requirement-

"A stop cock or gate valve must be installed at the upstream of the fittings for manual isolation of water supply." AND

"The main voltage operated sensor valve should comply with the electricity safety regulation for applications in bathroom, toilet etc."

A condition of this acceptance is that the fittings to be installed shall be replicas of the samples as certified by the testing agent mentioned above and without modifications. This acceptance may be withdrawn at any time if the standard of the fittings installed fails to meet that of the approved samples or if the fittings are found to be unsuitable for use in fresh water plumbing systems.

This acceptance is only applicable to the main body of the fittings, unless otherwise specified.

For the use of the fittings in any project, the General Acceptance Number of this letter must be quoted as a means of identification of acceptance of the fittings by this Authority.

Should you have any enquiries, please contact our Engineer Mr. Terry KUNG at tel. no. 3583 4086.

Yours faithfully,


(CHAN Chung-kun)

for Director of Water Supplies

Encl.

c.c. WSD 3321/1/82] - without catalogue
 ME/MC] - with soft copy only



INSTALLATION

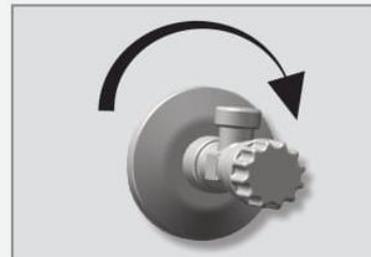
EXTREME CS E/B

Note: Prior to installation flush water lines.

STEP 1 – INSTALLING THE FAUCET

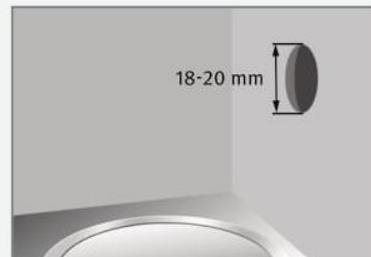
1

Shut off the water supply.



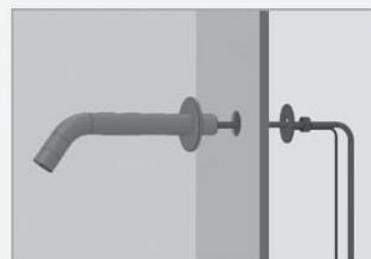
2

Drill a hole (18 to 20 mm) in the location you wish to install the faucet.



3

Insert the faucet base through the wall and fix it firmly on the opposite side with the hexagonal nut and the disk.





INSTALLATION

STEP 2 – CONNECTING THE WATER SUPPLY

- Remove the plastic tip that is inserted in the end of the black flexible tube.
- Connect the dual power box to the water supply lines.
- Connect the black flexible tube to the quick connector on the top of the dual power box.
- Place battery into the Dual Power input box.



STEP 3 – CONNECTING THE POWER SOURCE

1

Turn on the central water supply. Check for leaks.
Remove the protective sticker from the sensor.

2

Connect the power source.

3

Once the power source is connected, wait 15 seconds to allow the system to set the ideal sensor range. A LED will flash continuously to indicate this adjustment period. The solenoid valve will open for 1 second to indicate that the ideal sensor range was set.



2

If the automatically adjusted sensor range is not satisfactory to your purposes, please refer to the section entitled “Settings adjustment”.



TROUBLESHOOTING

| PROBLEM | INDICATOR | CAUSE | SOLUTION |
|---------------------------------------|---|--|---|
| No water is coming out of the faucet: | 1. LED light 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. Unit is in "Security Mode"* | |
| | | 4. Sensor is picking up reflections from the washbasin or another object. | Eliminate the cause of reflection. |
| | 2. LED light in the sensor flashes once when user's hands are within the sensor's range. | 1. 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. |
| | | 2. The central orifice in the diaphragm is plugged or the diaphragm is torn | Clean the orifice or replace the diaphragm. |
| | | 3. The water supply pressure is higher than 8 bar. | Reduce the supply water pressure. |
| | | 4. 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 backcheck prevents from dropping, even after water supply pressure drops under 8 bars. | Shut off the 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. | 1. Debris or scale in diaphragm | Clean the orifice or replace the diaphragm. |
| | | 2. Connectors between the electronic unit and the Dual power input box are disconnected or not connected properly | Connect the connectors properly. Refer to page 11. |
| | 2. LED light 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 the cause of interference. |
| | | 2. Sensor is picking up reflections from the washbasin or another object. | Decrease the range or eliminate the cause of reflection. |
| Water flow diminished | | Filter or aerator is clogged | Remove, clean, re-install the filter or aerator |

* "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 to re-establish operation.