

DB|400 Series

DOLPHIN PANEL MOUNTED INFRARED TAP

INSTALLATION AND MAINTENANCE GUIDE



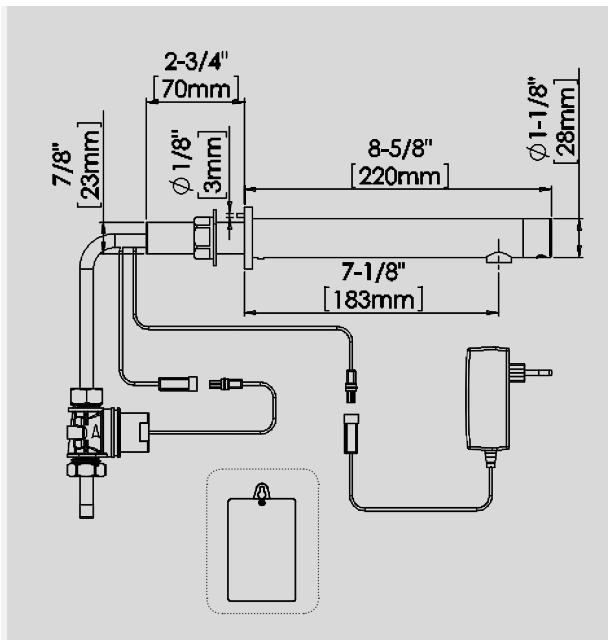
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TECHNICAL DATA



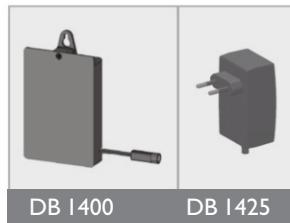
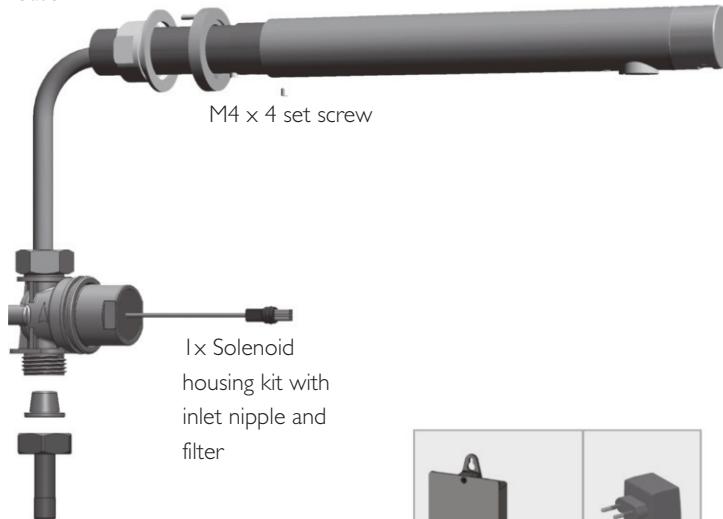
Power supply for DB 1400 model:	6 x 1.5V AA battery
Power supply for DB 1425 models:	9V transformer
Min Operating Water Pressure:	0.5 bar (7 PSI)
Max Operating Water Pressure:	8.0 bar (116 PSI) With water pressure of more than 8 Bars, use a pressure reducing valve
Sensor range:	Self adjusting sensor. Adjustable with remote control
Minimum sensor range:	40 mm
Maximum sensor range:	170 mm
Security time:	90 seconds. Can be reduced with remote control
Hot water temperature:	Max 70°C

PACK CONTENTS

1 x DBI400
base

1 x Wall rosette

1 x Spout and
attachments (incl.
electronic unit)



IP67 battery
box

9v
Transformer

PRE INSTALLATION INFORMATION

CHECK CONTENTS

Separate all parts from the packaging and check each part with the pack contents section. Pay attention to the variations of the different models.

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

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

To avoid reflection problems

I. Keep a distance of more than 300 mm between the sink and the spout.



2. Do not place a shiny pop up in front of the sensor:



PREPARATION FOR INSTALLATION

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

IMPORTANT

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

WARNING

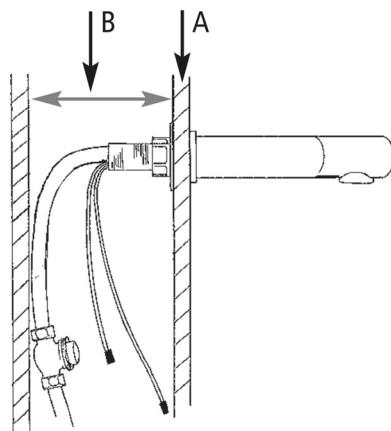
To avoid reflection problems keep a distance of more than 300 mm. between the sink and the spout.

PRE INSTALLATION

WARNING

- > To avoid reflection problems it is recommended to keep a distance of more than 300mm between the sink and the spout. If the distance is below 300mm a simple mock-up should be effected to confirm the tap functions as desired in your application before final installation. You may require a Dolphin Blue remote control to adjust the range.
- > Do not connect water or power supplies or remove the black label covering the infra-red sensor until you have read and understood these instructions. Please see page 13.
- > It is not recommended to use DB400 series with a polished stainless steel sink. For this type of application a separate panel-mounted sensor should be used – please speak to our technical sales team.
- > Please observe the guide to minimum cavity depths as shown in the table. This is important because the water supply hose must not be kinked due to lack of space. Please note we have provided this information as a guide and cannot be held responsible for fundamental design errors. If your situation differs to those shown below please call us on 0800 0723 404, and we will provide you with a solution.

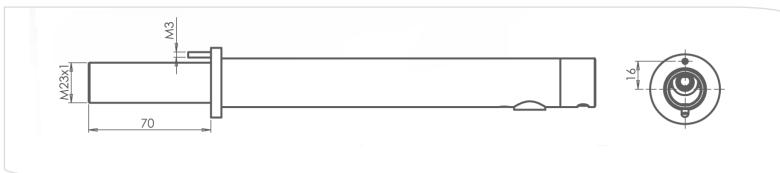
Panel thickness (A)	Minimum void (B)
10-15mm	90mm
16-25mm	80mm
26-35mm	70mm



TAP INSTALLATION

STEP 1 – INSTALLING THE TAP

1. Shut off the water supply
2. Drill a hole (26 to 27 mm) at the place where you want to install the tap spout.
3. Your model includes an optional anti-rotation pin. Drill a small hole just above the previous one for the anti-rotation pin.



4. Insert the tap and its attachments through the wall. The aerator in the tap spout must face the washbasin.
5. Insert the anti-rotation pin into the small hole (if needed)
6. Fix the base behind the wall with the hexagonal nut and the disk.

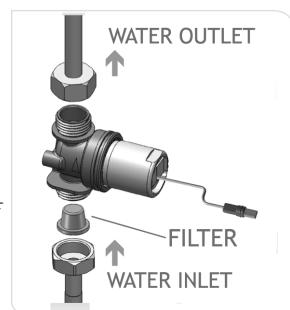
STEP 2 - CONNECTING THE WATER SUPPLY

1. Fit the flexible pipe coming from the tap to the solenoid valve housing.
2. Fit the water supply inlet to the inlet nipple at the solenoid valve housing.

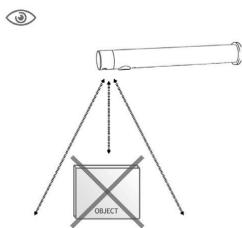
Note: Make sure the filter is located at the solenoid inlet.

3. Connect the cable coming from the electronic unit to the solenoid valve.

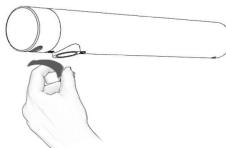
Important: DB 1400 / DB 1425 was supplied with a Self Adjusting Sensor. The ideal sensor range for the specific location will be set automatically.



TAP INSTALLATION



Before proceeding to step 3 check that no objects are in front of the sensor besides the washbasin.



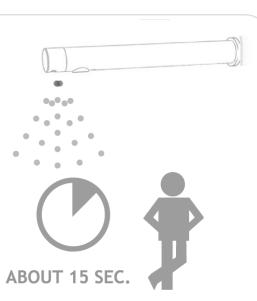
Now, remove the protecting sticker that covers the sensor.

STEP 3 – CONNECTING THE POWER SOURCE

1. For DB 1400: Connect the other cable coming from the electronic unit at the tap to the battery box.
2. For DB 1425: Connect the other cable coming from the electronic unit at the tap base to the transformer. Plug the transformer into the electricity socket.
3. After you have connected the power source (Battery or Transformer) wait 15 seconds in order to allow the system to set the ideal sensor range.
As an indication that the self adjusting is taking place, a red light in the sensor eye will flash continuously.
The solenoid valve will be opened and closed for 1 second as an indication that the ideal sensor range was set and the product is ready for use.
4. Turn on the central water supply. Check for leaks.
5. If the automatically adjusted sensor range is not satisfactory, please refer to the section entitled "Settings adjustment".

OPERATION:

This tap features an IP67 dual power input box. The product can be operated with a 9V battery or a 9V transformer. In addition, when used with a transformer, the product contains an integrated battery back up, for normal use during power supply failures.



ABOUT 15 SEC.

SETTING ADJUSTMENT



ADJUSTING THE SENSOR 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.

SETTING ADJUSTMENT



DETECTION RANGE: This tap was supplied with a self adjusting sensor. The ideal detection range for the specific location will be set automatically. Only if necessary, use the remote control to adjust the sensor range as follows: Press the RANGE button. Wait until a quick flashing of the LED in the sensor eye is perceived. Then, press + to increase the range and – to reduce it. Every push will increase or decrease one level.

Note: Once you have changed the detection range with the remote control, the distance will be remembered by the sensor; even if the power source is disconnected. To get back to the self adjustment mode, use the ADJ button only.



ENTRANCE TO THE SELF ADJUSTMENT MODE: Check that no objects are in front of the sensor. Press the ADJ button. Once a quick flashing of the LED of the sensor eye is perceived, remove your hand holding the remote control and move away from the sensor area. The ideal sensor range for the specific location will be set automatically. Once the self adjustment has taken place, the solenoid valve will be opened and closed for 1 second as an indication that the ideal sensor range was set and the product is ready for use.



SECURITY TIME: The Security time, prevents continuous running 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. Press the SEC button. Wait until a quick flashing of the LED in the sensor eye is perceived. Then, press + to increase the security time and – to reduce it.

SETTING ADJUSTMENT



DELAY IN TIME: It is recommended to change the delay in time for flush valves for urinals or toilets only. If required, the delay in time can also be modified in taps as follows: 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.



DELAY OUT TIME: It is recommended to change the delay in time for flush valves for urinals or toilets only. If required, the delay in time can also be modified in taps as follows: 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.



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. When the button is pressed, one blink of the LED in the sensor eye is perceived. The pre-programmed flush cycle will take place then. The Comfort flush cannot be interrupted or deactivated by pressing any button until it is over.



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). The tap 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.



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.

Note: To enter the self adjusting mode, use the ADJ button. To change the sensor range, use the RANGE button.

MAINTENANCE

CARE AND CLEANING OF CHROME AND SPECIAL FINISHES

DO NOT use steel wool or cleansing agents containing alcohol, acid, abrasives, and alike. Use of any prohibited cleaning or maintenance products or substances could damage the surface of the soap dispenser or tap.

For surface cleaning use ONLY soap and water, then wipe dry with a clean cloth or towel. When cleaning bathroom tiles, the soap dispenser should be protected from any splattering of harsh cleansers.

FILTER CLEANING INSTRUCTIONS

This tap is provided with a stainless steel filter preventing foreign particles to enter the lines. If the water flow has decreased, this may be because the filter is clogged.

The filter can be cleaned as follows:

1. For DB1400
 - a. Shut-off the water shut off valve.
 - b. Disconnect the water supply pipe from the adaptor and disassemble the filter from it.
 - c. Wash the filter under running water.
 - d. Reassemble the parts and restore the incoming water supply.
 - e. Make sure that there is no water
2. For DB1425
 - a. Release the screws at the panel and remove it. Turn off the regulating valve.
 - b. Disassemble the solenoid valve by opening the nuts.
 - c. Remove the filter and wash it under running water.
 - d. Reassemble the filter and the solenoid valve.
 - e. Turn on the regulating valve and adjust the flow capacity.
 - f. Make sure that there is no water leakage. Re-assemble the wall cover panel.

MAINTENANCE

SOLENOID VALVE SERVICING

The solenoid valve diaphragm requires periodical cleaning every six (6) month. Remove the diaphragm from the solenoid valve and examine it for dirt. in case it is dirty or clogged, wash it under running water and reassemble it. Do not attempt to dismantle the solenoid valve if you are unfamiliar with electronic solenoid valves.

BATTERY MODELS ONLY

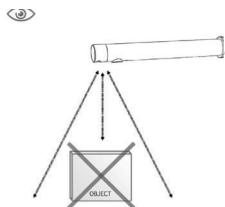
When the battery weakens, the red indicator light will blink at a constant rate when the user hands are within the sensor range. The battery must be replaced within two weeks.

To replace the battery (battery models only):

For DBI400: Unscrew and remove the battery box lid screw.

Carefully open the battery box and remove the old batteries. Replace the used batteries with six new 1.5V AA batteries. Do not install both used and new batteries in the same box. Close the box.

MAINTENANCE



Check that there are no objects in front of the sensor after the battery replacement was completed.



After you have replaced the battery, move away from the sensor range. Wait 15 seconds in order to allow the system to set the ideal sensor range. Then after the self adjustment has taken place the solenoid valve will be opened and closed for 1 second as an indication that the ideal sensor range was set and the product is ready for use.

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

Screws Kit	DB 07210101
10-Pack Sensor Kit	DB 08004502
8-Pack Solenoid and Housing Kit	DB 07221119
10-Pack Solenoid Valve Kit	DB 07232000
10-Pack Diaphragm Kit	DB 04500048
Battery box for 6 x 1.5V batteries (batteries included)	DB 06530096
9V Transformer (UK plug)	DB 06522091

TROUBLESHOOTING

PROBLEM	INDICATOR	CAUSE	SOLUTION
No water coming out of the tap	1. LED in the sensor does not flash once when user's hands are within the sensor's range.	1. Range is too short. 2. Range is too long. 3. Unit is in "Security Mode" 4. Sensor is picking up reflections from the washbasin or another object.	Increase the range Decrease the range Eliminate the cause of reflection.
	2. LED in the sensor flashes once when user's hands are within the sensor's range.	1. Debris or scale in solenoid. 2. The central orifice in the diaphragm is plugged or the diaphragm is torn 3. The water supply pressure is higher than 8 bar. 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.	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. Clean the orifice or replace the diaphragm. Reduce the supply water pressure. 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 2. Connectors between the electronic unit and the Dual power input box are disconnected or not connected properly	Clean the orifice or replace the diaphragm. Connect the connectors properly. Refer to page 11.
	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. 2. Sensor is picking up reflections from the washbasin or another object.	Clean or eliminate the cause of interference. 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.

LIMITED WARRANTY

Dolphin Solutions 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, Dolphin Solutions 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 Dolphin Solutions Ltd. with all warranty claims.

Dolphin Solutions 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 Dolphin Solutions Ltd. exceed the purchase price of the product.

If you believe that you have a warranty claim, contact your Dolphin 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.

DOLPHIN SOLUTIONS LTD. AND/OR SELLER DISCLAIM ANY LIABILITY FOR SPEC IAL, 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.



DOLPHIN

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