DB181 / DB186

DOLPHIN INFRARED COUNTER MOUNTED TAP

WITH TEMPERATURE ADJUSTMENT LEVER

INSTALLATION AND MAINTENANCE GUIDE

July 2021
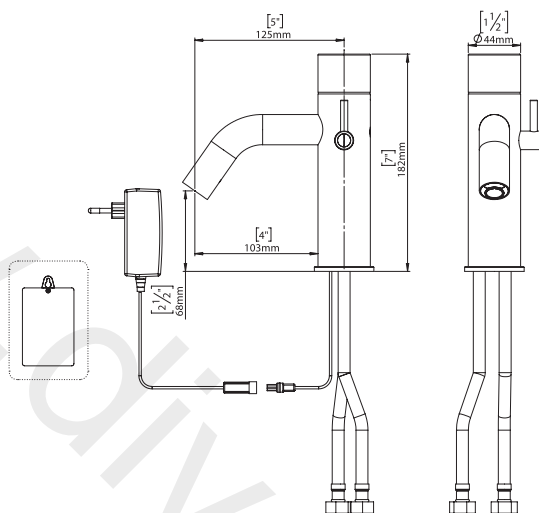
DOLPHIN
BLUE

INDEX

Power supply	6 x 1.5V AA Battery or 9V transformer
Recommended water pressure	0.5-8.0 bar (7-116 PSI) With water pressure of more than 8 bars, use a pressure reducing valve for reduction.
Preset sensor range	95mm / (customizable with optional remote control)
Minimum sensor range	30 mm
Maximum sensor range	120 mm
Security time 90 seconds.	Can be reduced with optional remote control.
Hot water temperature Max	70˚C

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

1 × Tap and attachments

B Version

Battery box with 6 X 1.5V batteries

E Version

9V transformer
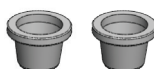
2 × filter

1 × Allen key

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 tap 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 tap and any other objects.

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.

Ø28mm min
Ø34 mm max
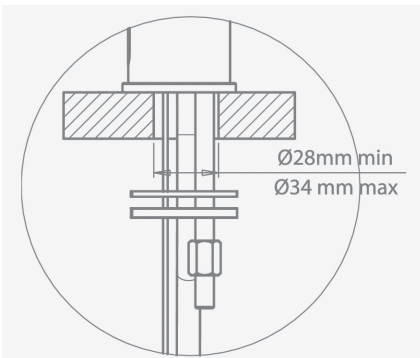
RECOMMENDED HOLE SIZE

Standard Versions

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.

Step 1 – Preparation for mounting the tap

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 tap.

2 INLETS VERSION

O-RING
GASKET
DISC
NUT
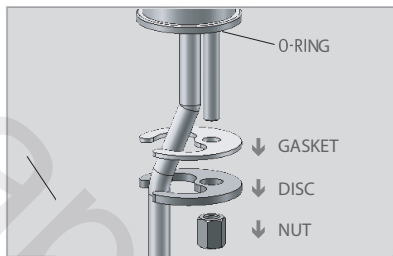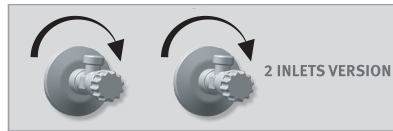
Step 2 – Installing the tap

1. Place the tap 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 tap.

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

O-RING
GASKET
DISC
NUT

O-RING
GASKET
DISC
NUT
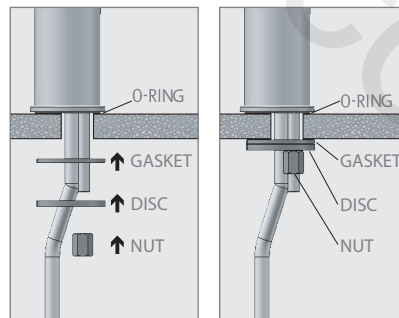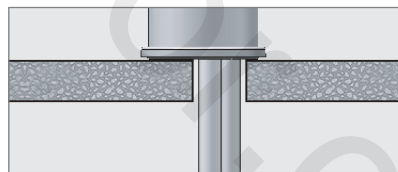
Step 3 – Connecting the water supply

1. Connect the red flexible pipe to the hot water supply and the blue flexible pipe to the cold water supply. **Make sure that the filters 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). Check for leaks.

2 INLETS VERSION
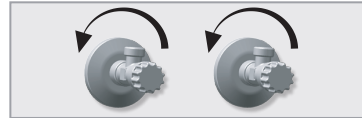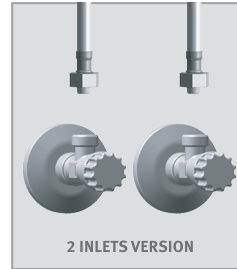
Step 4 – Connecting the power source
Battery Version

Install the batteries in the battery box and attach the box to the wall underneath the sink.

The cable connection must point down. (You can use an optional extension cable in order to assemble the battery box up to 3 meters away from the sink.)
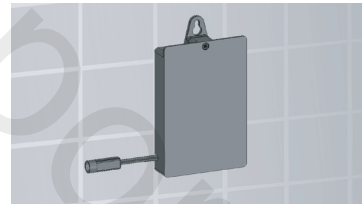
Transformer Version

Plug the transformer into the electricity socket and connect the connectors.

SETTINGS ADJUSTMENT

Detection Range

Delay in Time

Security Time

Comfort Flush

Delay Out time

Temporary Off Function

Self Adjustment Mode

Reset

Hygiene Flush

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

SETTINGS 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 tap 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 This button allows modifying the water flow time after the user removes his hands from the tap. A delay out time close to 0 will save more water. An increased delay out time will make the user experience more comfortable. If required, the delay out time can be modified as follows: 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). 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.

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.

HYGIENE FLUSH This model includes a 24 hours 30 seconds hygiene flush that can be disabled or adjusted from 0 to 72 hours. To disable the hygiene flush, press the clock button. Wait until a quick flashing of the LED in the sensor eye is perceived. Then press ''–'' twice to disable the hygiene flush setting. To change the hygiene flush interval press the clock button, wait until a quick flashing of the LED is perceived and press ''+'' or ''–'' to increase or decrease the interval accordingly. Each pressing equals 12 hours.

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.

BATTERY REPLACEMENT

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

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.

Filter cleaning instructions

This tap is provided with stainless steel filter preventing foreign particles to

enter the lines. If the water flow has decreased, this can be because the filter is

clogged. The filter can be cleaned as follows:

1. Shut-off the water shut off valve (angle valve).
2. Disconnect the flexible pipe.
3. Remove the filterand wash it 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 tap. For surface cleaning of tap 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

Dolphin Solutions Ltd warrants that its electronic taps, flush valves and controls 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 labour 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 tap, valve or control.

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 SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES. This warranty excludes product damage due to installation error, incorrect maintenance, wear and tear, battery, water composition, 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.

PROBLEM	INDICATOR	CAUSE	SOLUTION
No water coming out of the tap:	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. Solenoid is located inside the body.
		2. The water supply pressure is higher than 8 bar.	Reduce the supply water pressure.
		3. 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.	1. Debris or scale in solenoid	Clean or replace the solenoid.
		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 5.*
	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 or the solenoid is dirty.	Remove, clean, re-install

* "Security Mode": If the sensor is covered for more than 90 sec. the tap 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.
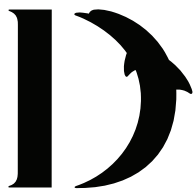
Dolphin Solutions Ltd
Southpoint, Compass Park, Bodiam,
Robertsbridge, TN32 5BS

Tel: +44 (0)1424 20 22 24
Fax: +44 (0)1424 205 200
info@dolphinsolutions.co.uk
www.dolphinsolutions.co.uk

DOLPHIN