KS15-2020

Electronic Gel Dispenser

User Manual

COMPONENT
HARDWARE

* Thank you for choosing the KS15-2020 electronic gel dispenser
* Please read this user manual carefully before installation and retain for future reference

Features

Hygienic:

Touchless Technology assisting a safer and cleaner work and living environment.

Material:

304 stainless steel shell and wall bracket.

Design:

Top cover can be locked, facilitating a tamper proof device.
Electronic parts are sealed, moisture and waterproof.

Installation:

Suitable for all public and domestic areas, including hotels, public buildings, schools, stations, hospitals, bars, restaurants, health care and households.

Adjustable distance:

Sensor distance can be adjusted according to requirement.

Dispensed liquid volume is adjustable:

Designed with SCM (Software Configuration Management).

Specification

Model	KS15-2020
Power supply	9V DC (6x 1.5V DC AA battery)
Liquid viscosity range [cp]	1-3500(*) (1800 recommended)
Liquid capacity [ml]	650
Liquid alcohol content [%]	Tested to 75%
Supply volume per drop [ml]	0,8 - 6,5 (adjustable)
Flowing time [s]	0,5-2 (adjustable)
Detecting distance [cm]	5-15cm (adjustable)
Ambient operating temperature [°C]	1-45

(*) at viscosities exceeding 1800cp, it is recommended to keep the liquid volume in the dispenser above 50% of the gel container capacity.

Caution before installation

To make sure that the KS15-2020 functions well during its lifetime, please assure the below:

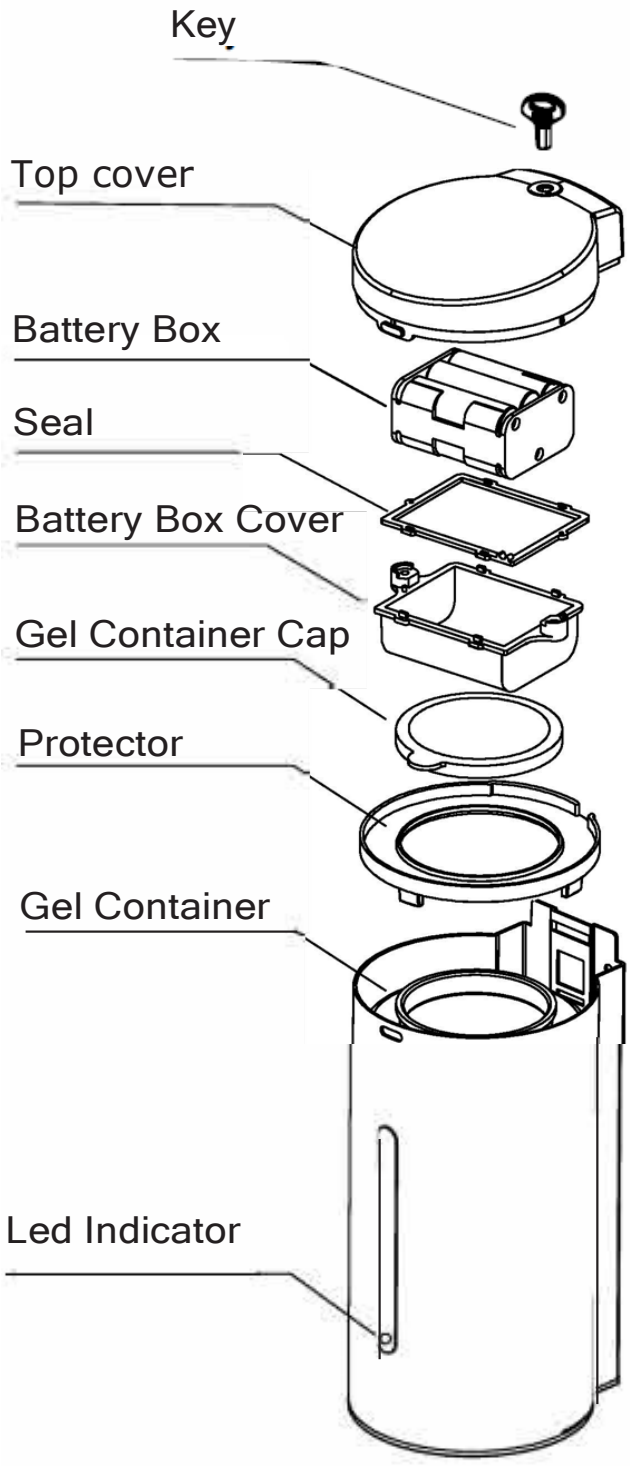
1. Please read this user manual and installation instruction before assembling.
2. Use 6 good quality AA batteries (alkaline). Do not use new and old batteries together, nor use other batteries.
3. Please check the wall for evenness. Clean the wall before mounting the unit.
4. Make sure the distance from the bottom of the dispenser to the closest object or table beneath is greater than 25cm.
5. Please provide this manual to the user after installation is complete.
6. Don't put any barriers in the sensor range.
7. To avoid sensor ghosting, don't put glossy (stainless steel) objects or photoelectric sensors underneath the sensor window of the dispenser (see installation instructions on page 5)
8. Please position the dispenser out of the sun's reach as much as possible.

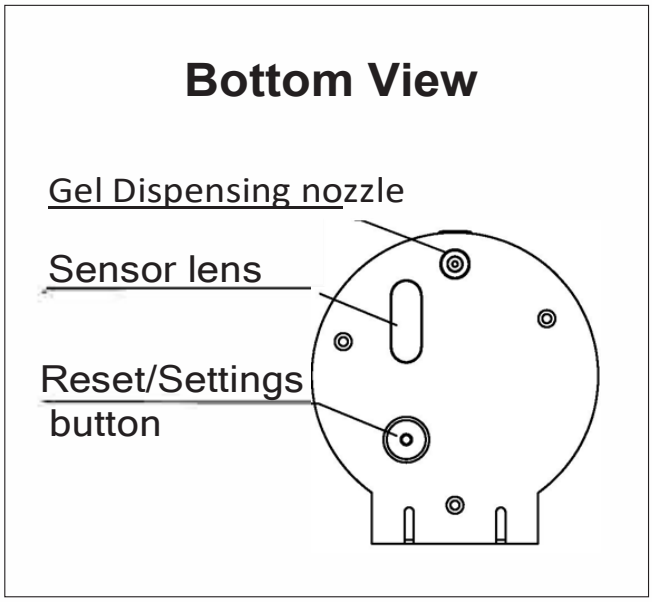
⚠ WARNING:

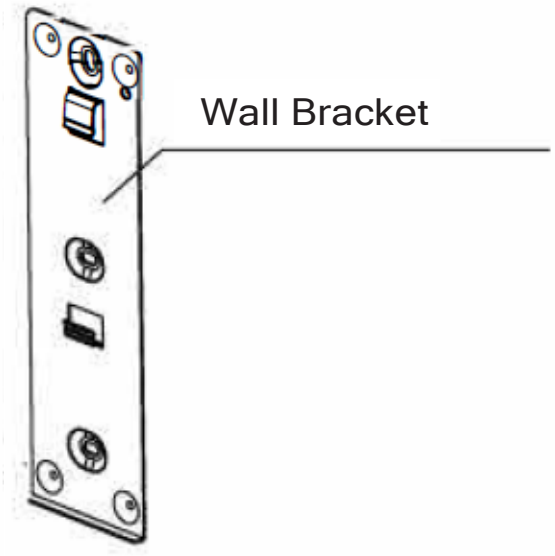
1. **The dispenser could arrive in dormant mode and will initially not respond. In this case, please hold the reset/settings button for more than 2 seconds, the Led indicator will show for 3 seconds, putting the unit into normal operation mode.**
2. **Before first use, please run the commissioning cycle for 10 seconds: press the reset/settings button 8 times. By pressing the reset/settings button 1 time, the commissioning cycle can be stopped. The commissioning cycle will stop automatically after 5 minutes.**
3. **If a longer period of non-usage (>72hrs) is expected, it is advised to put the dispenser into dormant mode: press the reset/settings button 5 times. In dormant mode, the dispenser runs one time per 72 hours if not used to avoid clogging.**
4. **To avoid accidental operation during cleaning or maintenance, set the machine into dormant mode.**

Part name

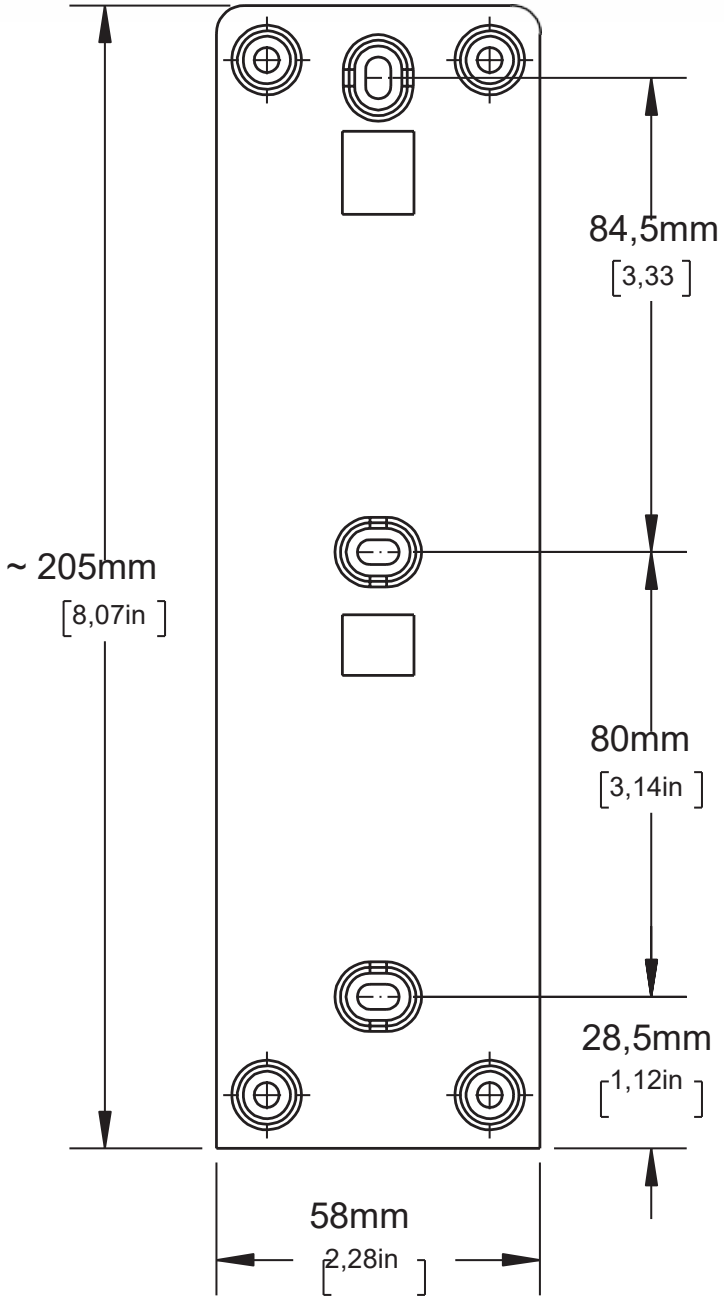
KS15-2020





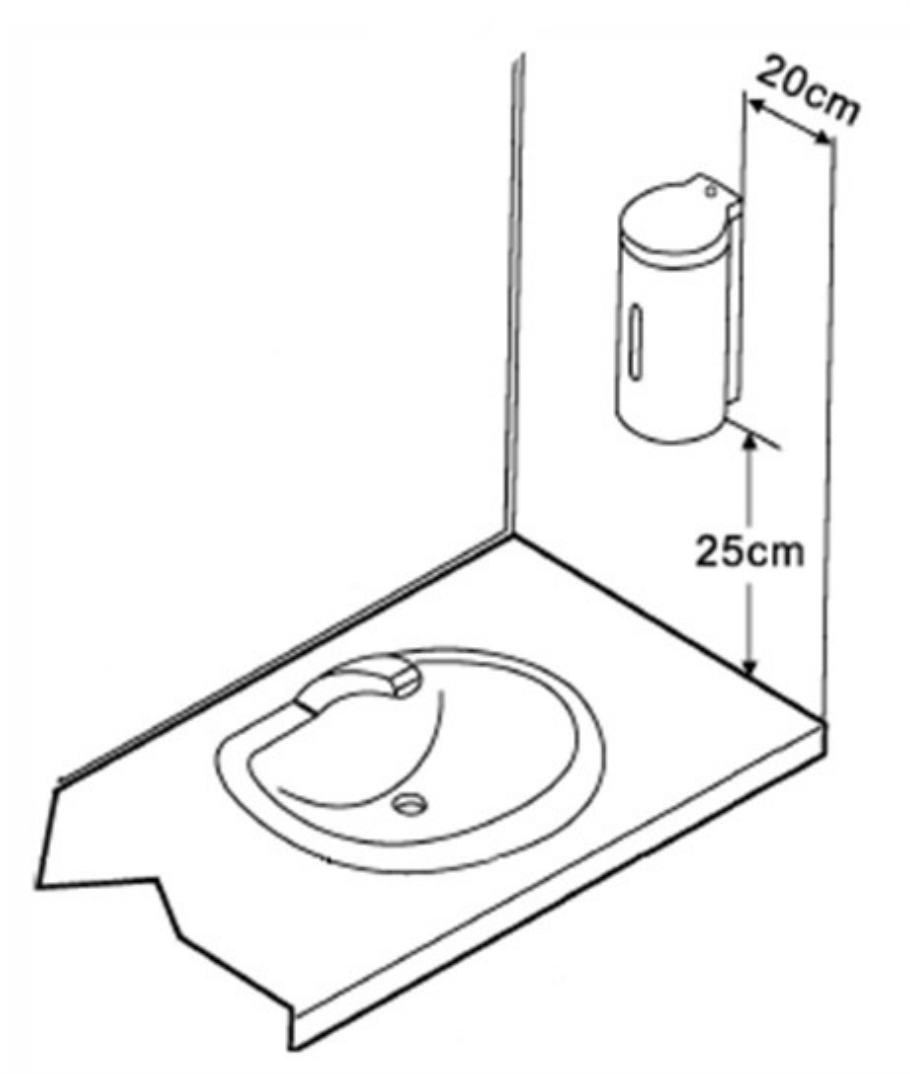


Wall bracket dimensions



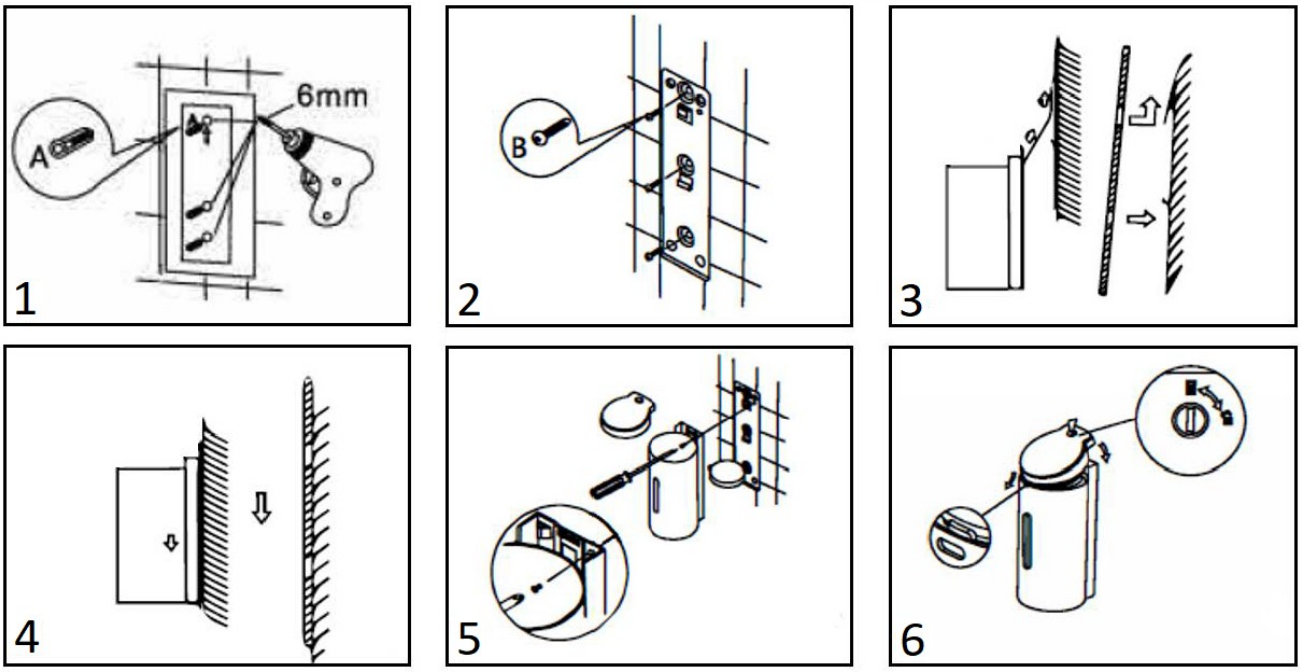
Installation drawing

Suggested positioning*



*** If to be installed above glossy (stainless steel) surfaces, the distance from sensor window to surface must be over 35cm.**

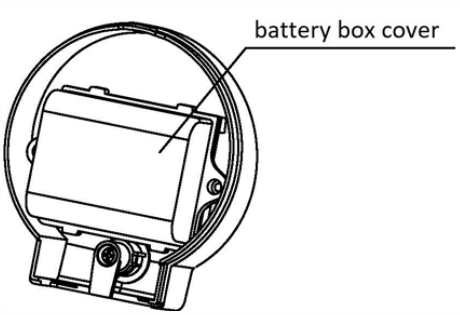
Installation guide



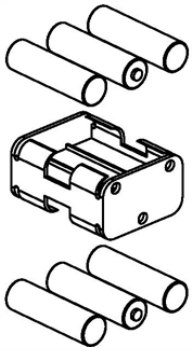
1. Unpack and position the wall bracket vertically against the wall and mark the drill hole positions. Drill 3x Ø6mm holes and put the plastic plugs into these holes.
2. Position the wall bracket and fix it to the wall with the screws supplied.
3. Position the dispenser onto the wall bracket.
4. Push the dispenser downwards, make sure it fits into the hook tightly.
5. Secure the dispenser on the wall bracket with the set screw.
6. Close the dispenser with the top cover and lock it with the key.

Replacing batteries

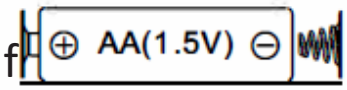
1. The Led indicator flashes continuously when battery life is ending.
2. Please change batteries at this time.
3. Select 6 AA alkaline batteries, new and old batteries can't be used together.
4. Open the battery box cover, remove the batteries and replace all batteries with new ones.
5. Please make sure you install the batteries in the right direction, the + and - side are indicated in the battery holder.
6. Re-position the battery box (take especial care not to pinch the cable), put the battery box cover back in place and tighten the screws.
7. Follow the instructions for setting the sensor range and volume of liquid if required.



- Unplug the cable and remove the battery box cover.



- Remove the old batteries and replace with new ones.



- Put the battery into the battery box according "+" & "-" direction.

Usage instruction

1. Unlock the top cover using the key.

2. Unplug the connector from the battery box.

3. Open the gel container and fill it with the liquid of your choice. Please clean any spills immediately.

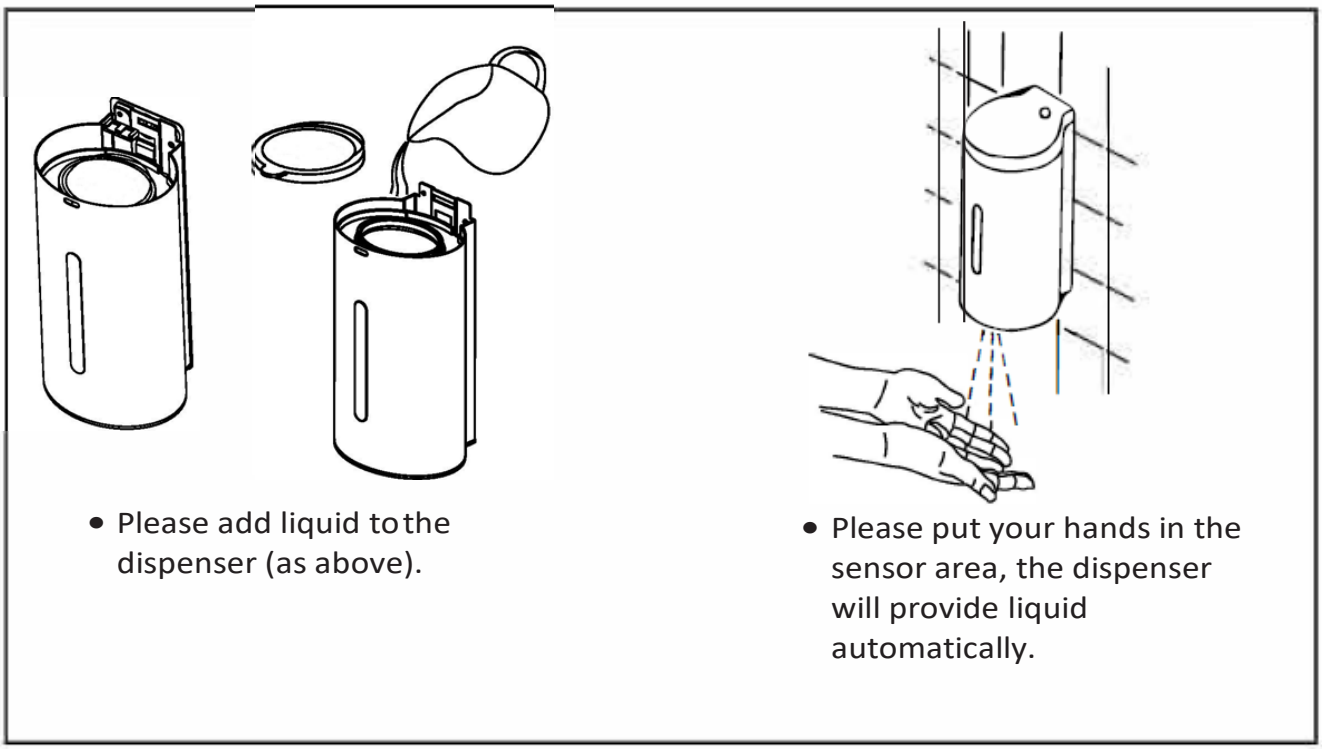
4. Reconnect the cable, put the top cover back in position and lock it with the key provided.

5. Put your hand under the sensor window; when the sensor detects, the Led indicator will flash and liquid dispenses automatically.

6. Hold the reset/settings button for more than 2 seconds at first use and activate the sensor until the liquid is dispensed.

Note:

Please remove the masking from the sensor lens before first use.



- Please add liquid to the dispenser (as above).

- Please put your hands in the sensor area, the dispenser will provide liquid automatically.

How to adjust distance and dispensing volume

Mount the KS15-2020 onto the wall (please see page 6). Then power on the unit; the Led indicator will flash 5 times. If there is no object in the sensor range for 30 seconds, the settings mode will be exited, and the dispenser will go into the default factory setting.

1. Adjustment of sensor distance:

You can change the sensor distance if you require shorter or longer distances:

a. Press and hold the reset/settings button for 15 seconds; the Led indicator will start flashing first at a high frequency; once it drops to a lower frequency, you can release the reset/settings button, now the dispenser is in settings mode, which lasts for 10 seconds.
b. When in settings mode press and hold the reset/settings button again for 5 seconds, the Led indicator will light up continuously then flash fast for 5 seconds.
c. Within these 5 seconds, put your hand under the dispenser at the desired distance to set. The Led indicator will confirm with 4 slow flashes.
d. The sensor distance is now set to the required level.

Note: *(The sensor distance should be 5-15cm)*

2. Adjustment of dispensing volume

You can change the dispensing volume if you require more or less liquid.

a. Put the dispenser in settings mode, please note 1a above.
b. When in settings mode, press the reset/settings button twice, the Led indicator will start flashing.
c. While the Led indicator is flashing, put your hand within sensor range; the dispenser will start dispensing liquid in bursts while you keep your hand within sensor range, with a maximum of 7 bursts (there are 7 different liquid levels for this dispenser).
d. The moment it has dispensed the perfect amount of liquid, just move your hand away
e. The dispensing volume is now set to the desired level.

Note: *Please make sure that all adjustments of sensor distance or dispensing volume are completed within 30 seconds, otherwise the unit will exit settings mode and you will need to enter settings mode again to complete adjustments.*

Troubleshooting

Problem	Cause	Solution
Led indicator does not work	Dispenser is in dormant state	Switch off dormant state (p.2)
	Sensor distance is too short	Adjust to longer sensor distance
	The batteries do not function	Check batteries and change if required
	Sensor window is not clean	Clean sensor window
	Sensor failure	Replace sensor
Led indicator works but liquid is not dispensed	Sensor is switching continuously	Remove any barriers in front of the sensor
	Sensor distance is too long	Adjust to a shorter sensor distance
	Dispenser is clogged.	Run commisioning cycle (p.2)
	Liquid volume <50%	Fill gel container.
	Dispenser failure	Contact your supplier
Liquid volume is not enough	Dispensing time is too short	Adjust it according to this manual
	Liquid viscosity is too high	Use lower viscosity liquid
	Liquid is clogging	Use it continuously until it works, if not working, call your supplier
	Gel container is empty	Refill the gel container

Caution

1. The electronics are sensitive to mechanical shock, please refrain from any mechanical or violent interference with any part of this dispensing unit.
2. To avoid corrosion of the product's surface or inner electric components being damaged, please use soft cloth with neutral liquid to clean its surface. Then use damp cloth to wipe off any residual liquid, dry off with soft cloth. Don't use water or any soap detergent which includes abrasive powder with high acidity / alkalinity. Avoid nylon brushes etc. Please make sure that the glossy cover of the sensor window is not scuffed, scratched or damaged in any way to prevent the sensitivity being reduced.

EU Declaration of Conformity

We:

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Declare that the Declaration of Conformity is issued under our sole responsibility and belongs to the following product:

- Automatic soap/gel dispenser
- Type 'KS15-2020'

Product description:

- Automatic soap/gel dispenser with stainless steel body and mounting plate with infrared based sensor, including battery box.

The product described above is in conformity with the relevant European Union harmonization Legislation:

- EMC Directive 2014/30/EU
- RoHS Directive 2011/65/EU Annex II 2015/863, as last amended by Directive (EU) 2017/2102

The following harmonized standards and technical specifications have been applied:

- EN55014-1:2017
- EN61000-3-2:2014
- EN61000-3-3:2013/A1:2019
- EN55014-2:2015
- IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013
- IEC 62321-6:2015, IEC 62321-7-1:2015
- IEC 62321-7-2:2017, IEC 62321-8:2017

Breda, the Netherlands
June 10th, 2020

P.R. Zuurveld, Managing Director