



tweaq

RISE

The world's 1st smart self-disinfecting door handle



*Gamechangers in Hygiene & Health,
Hospitality & Happiness*

The problem

60%

of occupants in an establishment can be contaminated in less than 4 hours from a single door handle.

Source: American Society for Microbiology, 2014

80%

of disease transmission is caused by hand contact.

Source: Centres for Disease Control and Prevention (CDC)

95%

of people are repelled by public door handles

Source: Yougov Survey – 2'000 participants, 2021

The product

Rise is a self-disinfecting door handle eliminating *99.99% of germs after every use to reduce cross contamination in highly frequented areas.

The product features connectivity to allow the client to access key data and insights on a private dashboard.

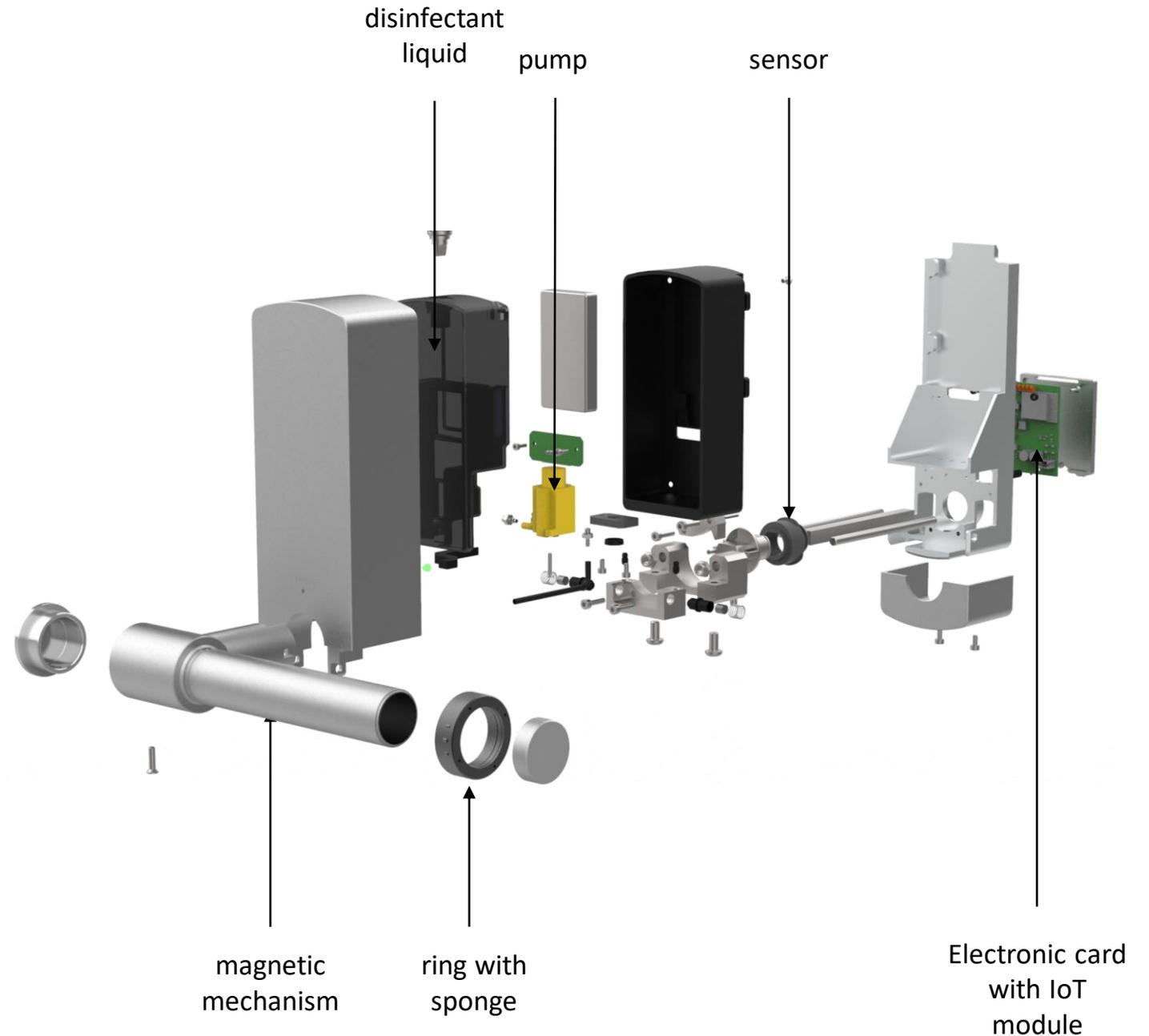
The data allows Tweaq to automatically send the cartridges (containing the disinfectant liquid and the battery) to the client.

Once empty after 2.000 uses, the cartridges are sent back to Tweaq to be refilled and recharged to reduce waste.



How does it work?

1. A sensor detects the activation.
2. The disinfectant liquid is brought from the cartridge to the sponge inside the ring.
3. The ring goes back and forth to disinfect the surface with a magnetic mechanism.
4. An IoT module sends the data on the cloud which then accessible on a private dashboard.



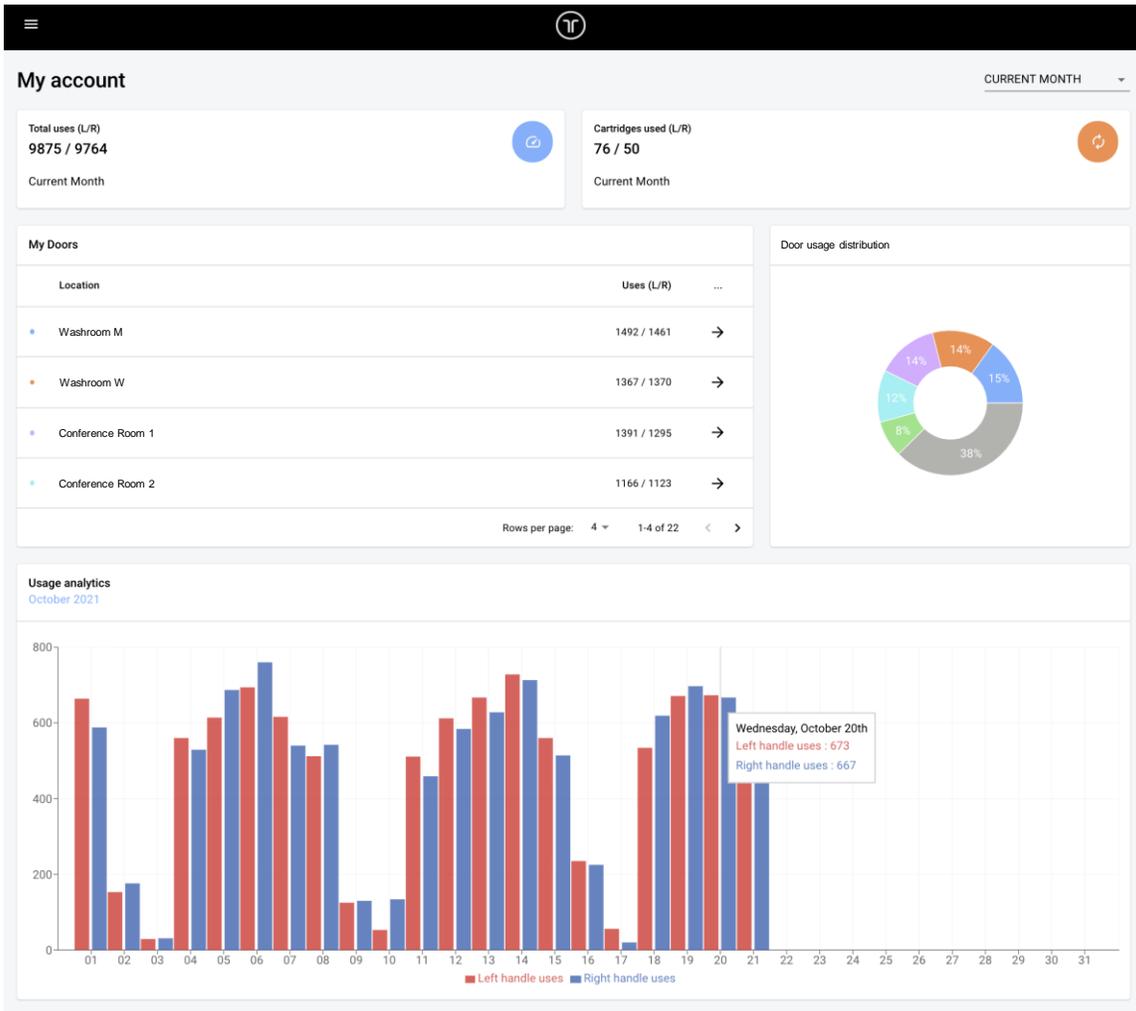
The Dashboards

The client can access two main views: the overall view (1) and the door specific view (2). Both views can display different time periods (today, last 7 days, last month etc.)

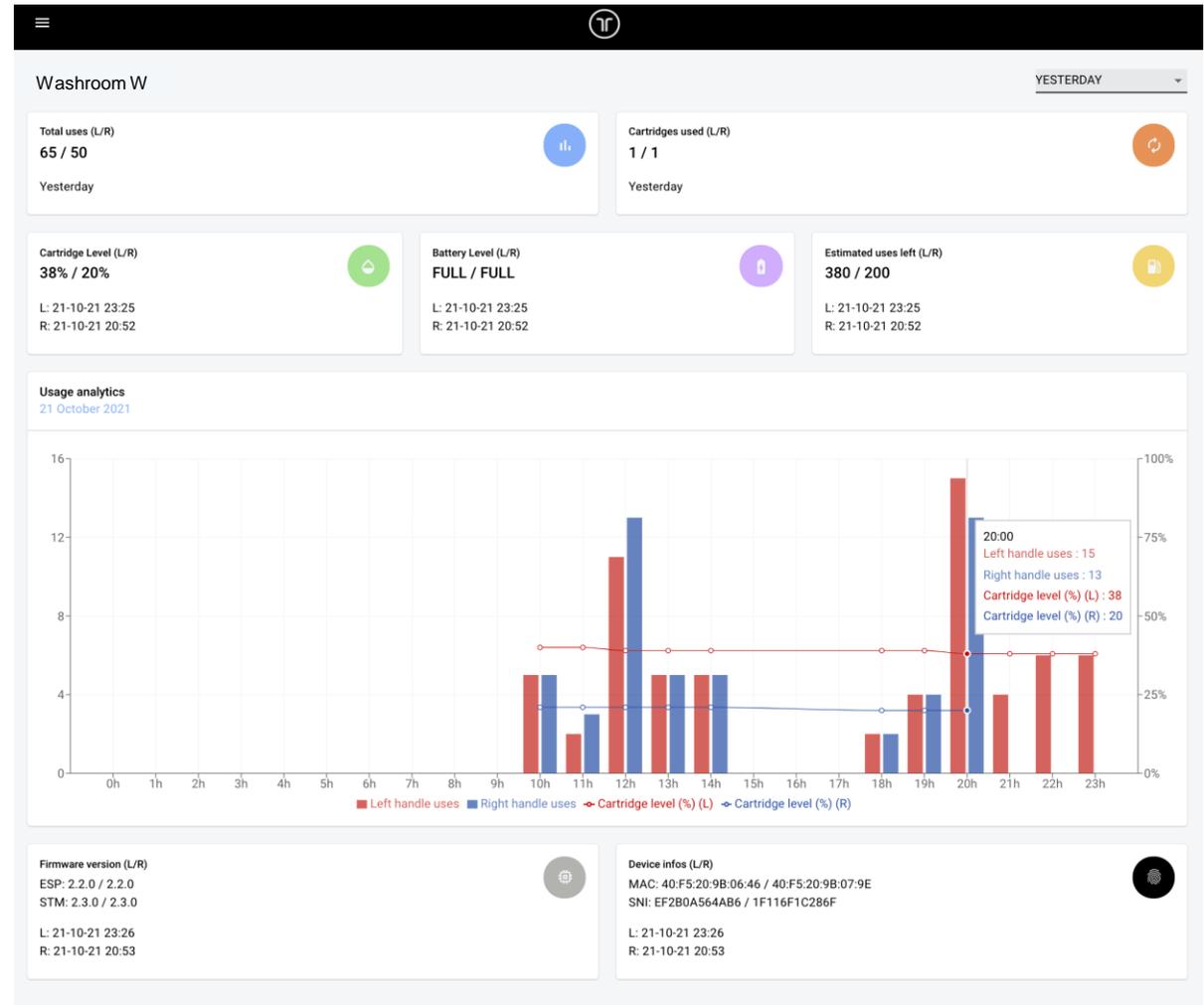
Key data and insights:

- Better knowledge of the environment through activity tracking.
- Optimising cleaning costs by monitoring peak times.
- Getting notified to replace the cartridges.
- ...

1



2





We take care of everything

Tweaq provides a full service to the customer for a **hassle-free** experience.



FREE installation and set up of the product



Cartridges sent automatically for **FREE**



Notifications to replace the cartridges



Reusable return box to ship back the empty cartridges with prepaid return label for **FREE**



FREE Access to key data and insights on the dashboard

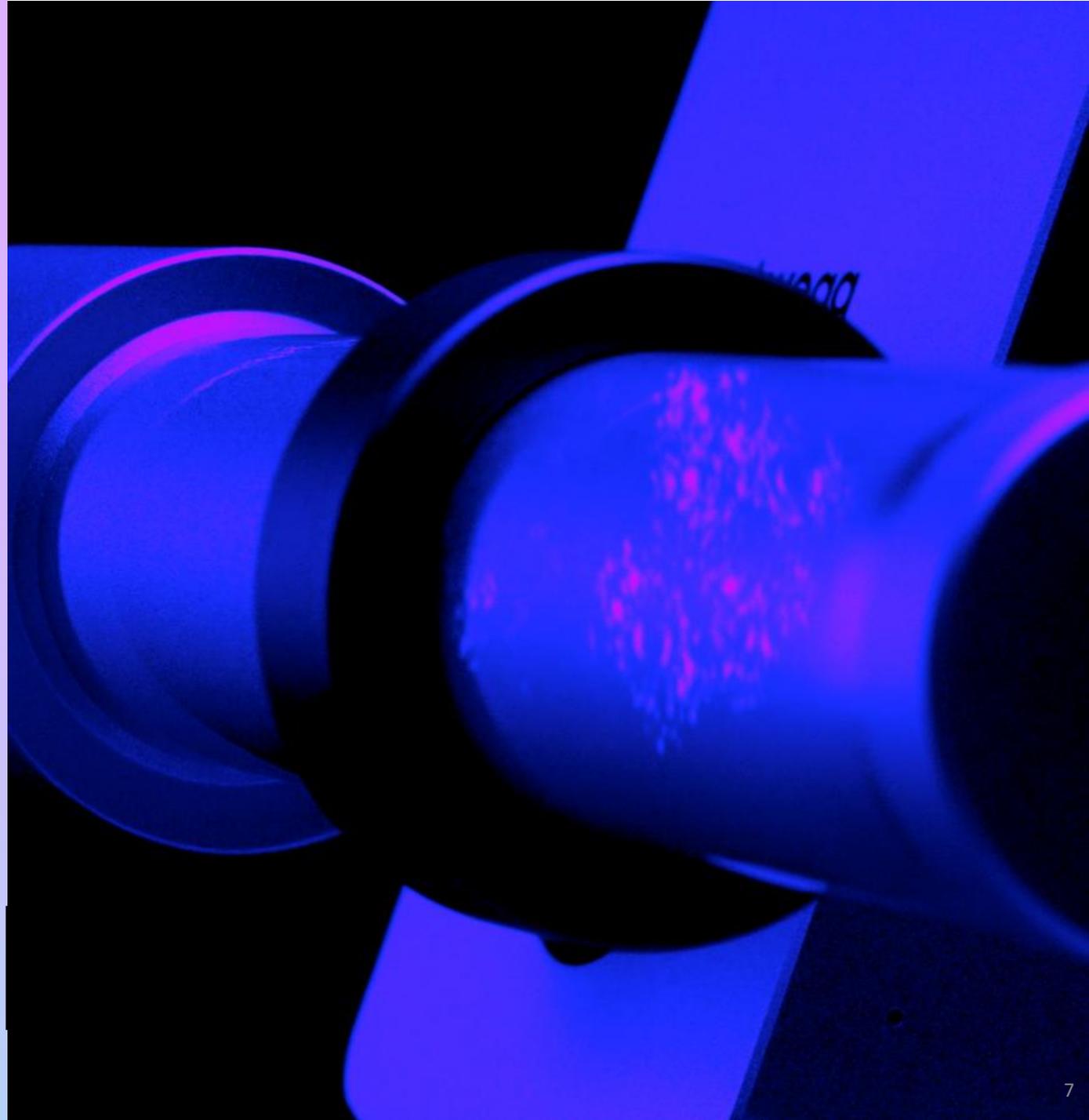
Effectiveness

The self-disinfecting door handle has been tested against 30 different microorganisms, including: *S. aureus*, *E. coli* and *C. albicans*.

Following the surface's disinfection with the ring, the antimicrobial effectiveness is >99.99%. The tests were carried out in the Scitec laboratory in Lausanne.

The disinfectant solution used is the "Sanitizer Surfaces S3" from SaniSwiss. This IIa class sanitizer is a renowned virucide for its quality of disinfection.

Tests are underway in the Eurofins laboratory to ensure the effectiveness of the product against different types of viruses including poliovirus and coronavirus.



Certifications

TÜV was commissioned to certify Rise, which complies with European standards with the CE mark.

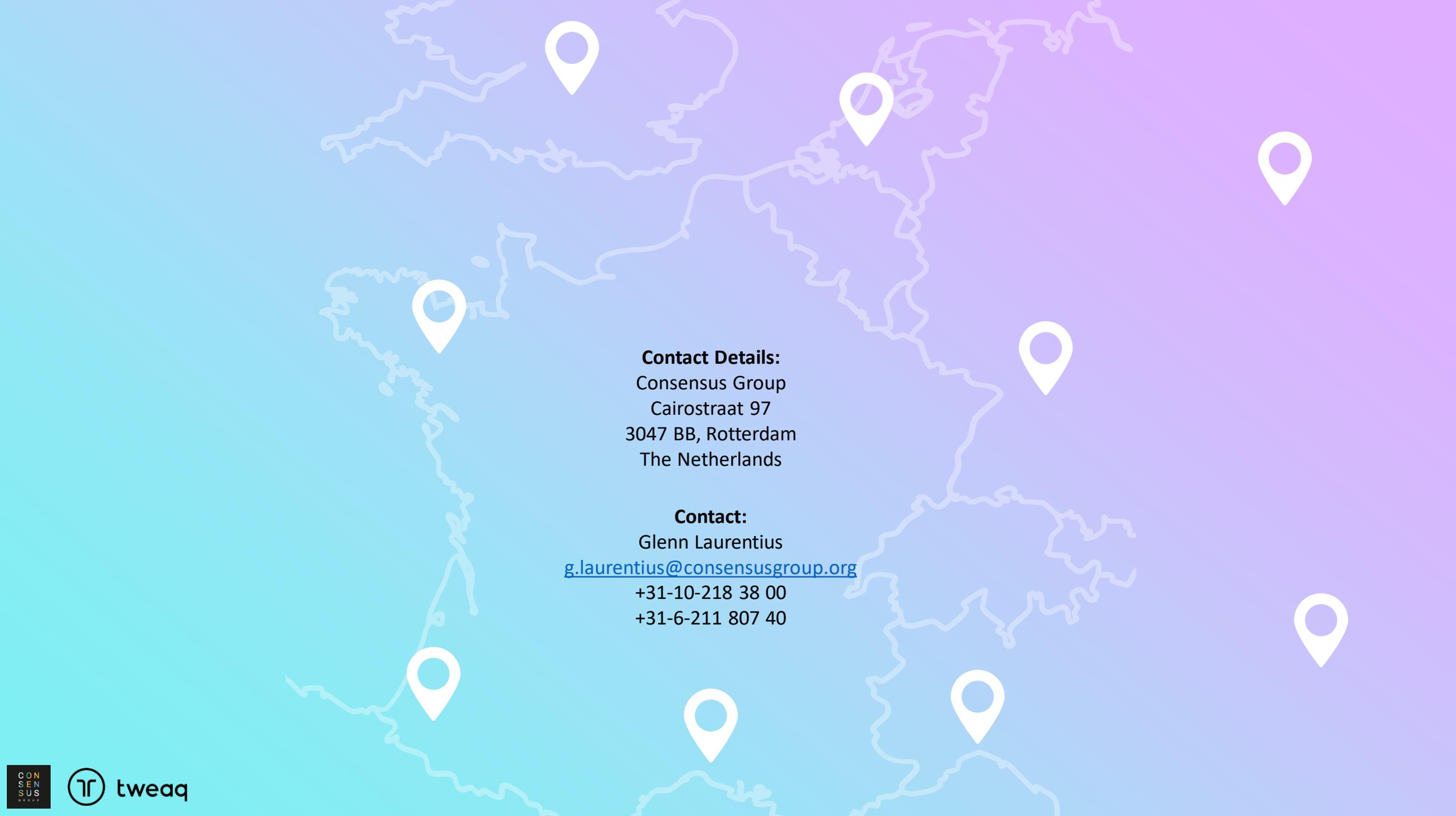
Tweaq has performed extensive life, robustness and durability tests leading Rise to perform over 200.000 disinfection cycles.



Technical Features

Rise can be retro fitted on any standard door and is fully independent from the locking mechanism.

Handle dimensions :	diameter 25mm, length 170mm.
Case dimensions:	height 189mm, width 65mm, depth 34mm.
Power supply:	lithium battery.
Material:	aluminium.
Spindle:	supplied with a 7x7mm and an 8x8mm adapter for 40mm thick doors
Assembly:	go-through screws or case screwed to the door.
Autonomy:	1'000-3'000 uses depending on the frequency
Liquid capacity	89 ml.
Disinfecting liquid:	alcohol based solution for special materials.
Warranty:	2 years.
Transmission:	magnetic coupling.
Wi-Fi:	2.4GHz, securities: Open, WEP, WPA, WPA2 and WPA2-Corporate
IoT:	MQTT, TLS, TCP/IP
Handle weight:	628g (without cartridge)
Cartridge size / weight:	height 128mm, width 57mm, depth 38mm / weight 225g (with disinfectant)



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