

Chiplock[®] 5.1

Registration and access for underground and above-ground containers



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Chiplock® 5.1 is specifically developed to provide a sustainable solution for controlling and registering waste deposits. The system is user-friendly, guiding residents through the process, while providing you with valuable insights into waste stream behaviors and results.



Quality

All materials have been carefully selected, ensuring that the Chiplock® 5.1 has a long service life, making it one of the best in its class.



Secure & GDPR-Compliant

Waste deposit registration is secure and fully compliant with GDPR guidelines. Standard features include pay-as-you-throw (Difstar) and complete anonymization.



Future-Proof

The Chiplock® 5.1 is equipped with LTE-M connectivity, and includes NFC and Bluetooth capabilities, making it ready for Digital Environmental Pass integration.

Usability and Insight

The Chiplock® 5.1 is built from reliable, durable components and has proven its effectiveness in the field over the years. Its large display offers high contrast and remains easily readable in all weather conditions. Integration with our VConsys Dynamics management software allows you to monitor and influence waste disposal behaviors at any location.

All information is accessible, detailing who disposed of waste, where, when, and how much, in compliance with current GDPR regulations. This provides valuable insights into behavior patterns and allows for accurate measurement or prediction of container fill levels, ensuring more efficient emptying and prevention of overflow.

Circularity and Material Selection

The design of the Chiplock® 5.1 prioritizes the use of sustainable materials that minimize environmental impact throughout their entire lifecycle.

The modular design of the Chiplock® 5.1 ensures that the entire unit does not need to be replaced in the event of technical issues or vandalism, enhancing its sustainability. Materials are reused, repaired, refurbished, and recycled wherever possible. For example, batteries are sent to recycling for future reuse.



Contents

Chiplock®: a complete system

This set, including installation instructions, enables you to fully equip a container as a smart waste collection unit. A standard set includes the following components:

- Chiplock® 5.1 Controller with a flat cover
- Chiplock® 5.1 Battery Box (including battery)
- Chiplock® 5.1 Bistable T-lock

For containers with dual openings, we offer the DUO set, which includes two locks to secure both openings.

Options:

- Chiplock® 5.1 Pin Pad Solution
- Compact Bistable Lock
- Chiplock® 5.1 Keyfob and MIFARE Cards
- Prepaid Module
- Anti-cloning and Fraud Protection (Ultralight C)
- Digital Eco Pass

Fill Level Sensor

The Chiplock® 5.1 Fill Level Sensor is specifically developed for underground waste collection systems.

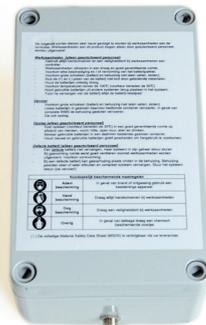
This sensor has proven itself in the waste management industry and features the following characteristics:

- Ultrasonic technology;
- Adjustable measurement filter;
- Resistant to aggressive fumes;
- Detects uneven fill levels;
- Easy installation.



Chiplock® 5.1 Controller

The Chiplock® 5.1 Controller offers energy-efficient LTE-M for reliable communication and GPS support for container positioning. Wireless features include Bluetooth and NFC. The Controller features a 2.4-inch TFT color display that remains easily visible in direct sunlight and offers a wide viewing angle. Users can choose between standard or personalized display images.



Chiplock® 5.1 Battery Box

The Chiplock® 5.1 Battery Box features a durable, fully recyclable housing and meets IP66 and IP67 standards for dust and water resistance. The powerful lithium battery includes safety mechanisms against overcharging, short circuits, and deep discharge, ensuring optimal lifespan.



Chiplock® 5.1 Bistable T-lock

The Chiplock® 5.1 locks are carefully designed for underground waste collection systems. These locks are robust, vandalism-resistant, and built for long-term use. The meticulous attention to detail ensures a long service life.

Wherever you are

You may not always be aware of it, but VConsyst is always around. Our iconic waste bins, underground containers, bicycle parking systems, shelters, and our seating and street furniture can be found all across the Netherlands and beyond.

We provide you with innovative, comprehensive solutions for the design and management of public outdoor spaces. Solutions that make your environment easier, more beautiful, and safer.

And above all: more sustainable. Because VConsyst thinks not only of today and tomorrow but also of future generations. Wherever you are, now and in the future.



Litter bins

Sustainable litter bins for public spaces.



Durable canopies

Open and lockable canopies for public spaces and business parks.



Durable seating

High quality outdoor benches and seating for any application.



Underground containers

Underground waste containers that fit in with the streetscape.



Sustainable bicycle parking

From simple racks to complex double-layer solutions.



VConsyst Dynamics

The software basis of all our solutions.

