



fp2

ONE for All

HydroElite and TractionElite

# Hydroware

Moving people into a *sustainable* future

At Hydroware, we are at the forefront of sustainable lift technology, striving to minimise environmental impact and maximise lift lifespan. Our innovative solutions combine energy efficiency, performance, and open architecture, enabling seamless modernisation and extending the life cycle of your lifts.

We are committed to circular economy, fostering reuse, resource conservation, and long-term profitability. Partner with Hydroware to experience sustainable lift solutions that deliver exceptional performance and that are designed for circular economy.

## A global company with roots in Sweden

For over 25 years, we have built our success on our vision - moving people into a sustainable future - and we hope that you want to be part of our strive to bring sustainability to the forefront of the lift industry. Our appreciated solutions, service and support has propelled our growth and today you can find a Hydroware office, as well as our representatives, in Sweden, Germany, UK, the Netherlands, Belgium, Italy, Switzerland and Australia.

We provide lifts all over the world, but no matter your point of contact, we want to make sure that you receive a certified Hydroware experience from your first engagement throughout the entirety of the lifts lifespan.

## Hydroware as a partner

### Products

- Unique Technology
- Sustainable Lifts
- Complete Lifts

### Time saving

- Quick installation
- Fast delivery

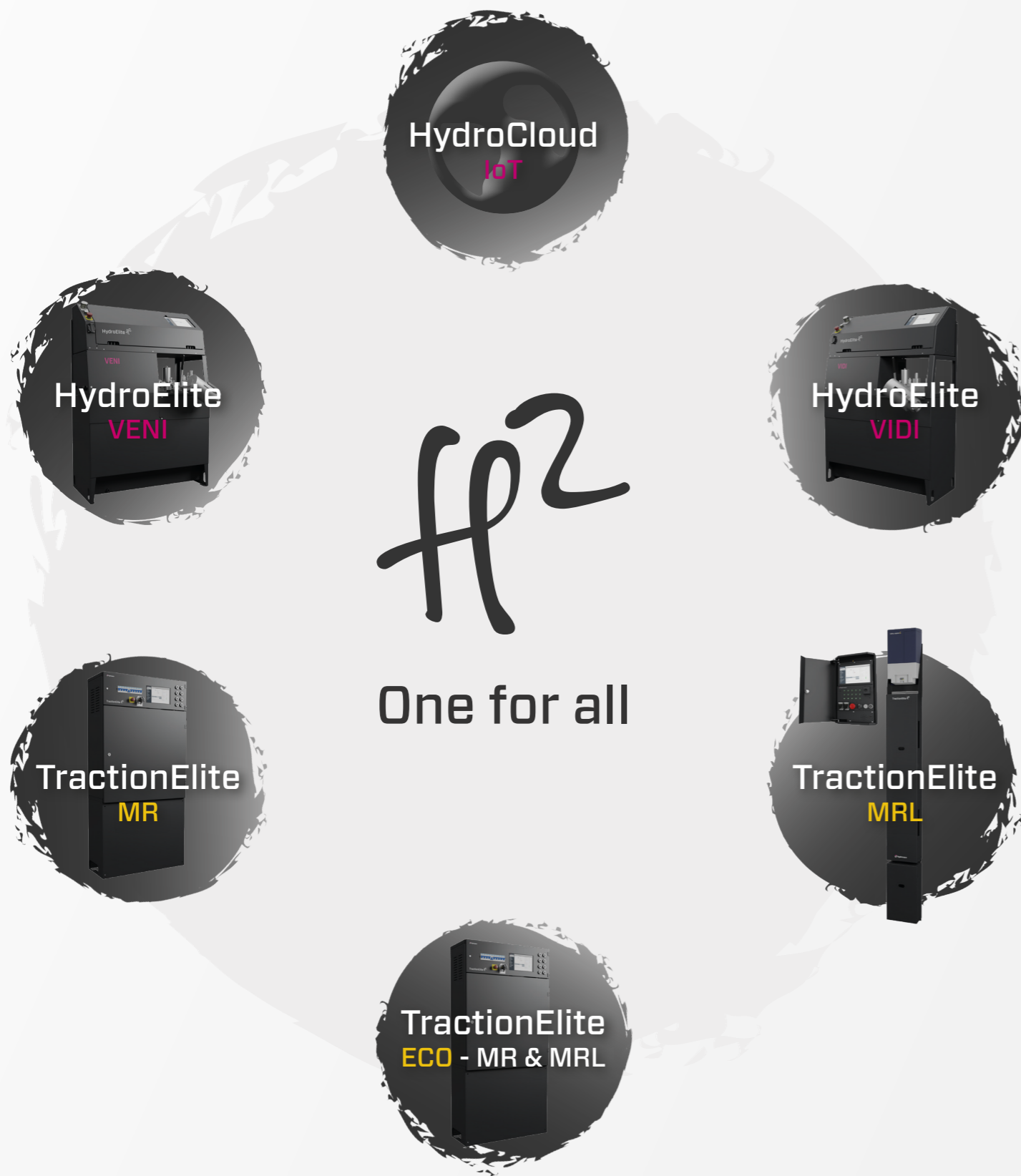
### A true partner

- Support and Service
- ONE-stop-shop
- Swedish quality



Hydroware  
offices





## H2 - ONE For All

The H2 lift controller is designed for both the TractionElite and HydroElite. A modern system with built in IoT capabilities that promises to bring lift installation and maintenance into the 21st Century. Furthermore, we are a One-Stop-Shop for everything you need for you lift project. Everything from ONE supplier.

### Main features



#### ONE Supplier

The H2 enables you to use Hydroware as your number ONE professional partner for everything you need for all your modernisation projects - ONE-Stop-Shop. ONE partner for All.



#### ONE fast installation

ONE fast and simple installation and commissioning method. The same shaft installation and commissioning logic, the same user interface and the same supplier. ONE experience for All.



#### HydroCloud Portal

HydroCloud is included on all H2 units. Get access to all your connected lifts and get real time status via one dashboard. Register for error codes directly via push notifications.



#### Real time and Historical data

View real time and historical data from your lift portfolio - error codes, status, statistics and more. Enjoy remotely updated software, documentation and run diagnostics thanks to the available tools.



#### 10" touch display & interface

Each unit comes with an integrated 10" touch display simplifying navigation, commissioning, tests and trouble shooting. Navigate the interface the same way you navigate a smartphone.



#### Use your own smart device

Each unit can be accessed remotely by any smart device while on-site by a locally generated WiFi. Everything that can be done on the unit, can also be done on your own smart device.



#### Plug & Play - CANopen Lift

H2 is developed according to CANopen-LIFT standard allowing seamless communication between components following the specification. CANopen LIFT devices, components and wirings prepared for H2 can practically be viewed as plug and play installation.



#### Position Supervisor Unit

H2 includes the PSU H2 DILIGENS, a safe absolute positioning system with UCM and overspeed tripping functions. Activates electrical safety gears and replaces all safety-relevant limit switches and floor sensors - SIL3 compliant and certified according to EN81-20/50 PESSRAL.



# TractionElite fl<sup>2</sup>

## MR. MRL. ECO.

### TractionElite H2 MR and MRL

- Everything you need for your modernisation
- Same perks as when ordering a HydroElite
- Open design suitable for any CANopen LIFT inverters

### TractionElite H2 MRL

- **MRL-S:** Controller inside shaft and certified user interface box outside of lift shaft
- **MRL-E:** Controller inside Existing cabinet
- **MRL-F:** Controller on Floor

In the user interface box:

- Display and user interface
- Evacuation procedures
- Resetting of fuses

### TractionElite H2 ECO (MR and MRL)

- Inverter with regeneration



# HydroElite fl<sup>2</sup>

## VENI. VIDİ.

### Energy

- Up to 70 % energy savings\*
- Up to 70 % lower power demand\*\*
- Reduce environmental impact by 50 % through modernisation

### Features

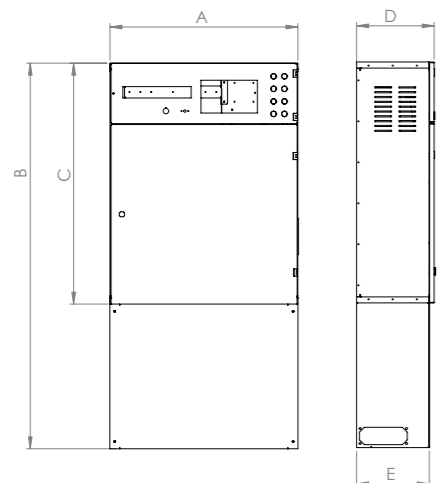
- Direct approach to floor
- Shorter travel time
- Increased travel capacity
- Pre-tested in testing facility
- Rarely the need for an oil cooler - VIDİ

### Technology

- Patented servo valve
- No bypass of oil
- Self learning & self adjusting
- Submerged motor & soft starter - VENI
- Air cooled motor with inverter - VIDİ



### MR

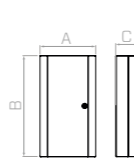


MR	A	B	C	D	E
	780	1600	1000	322	302

### MRL-S



### MAP

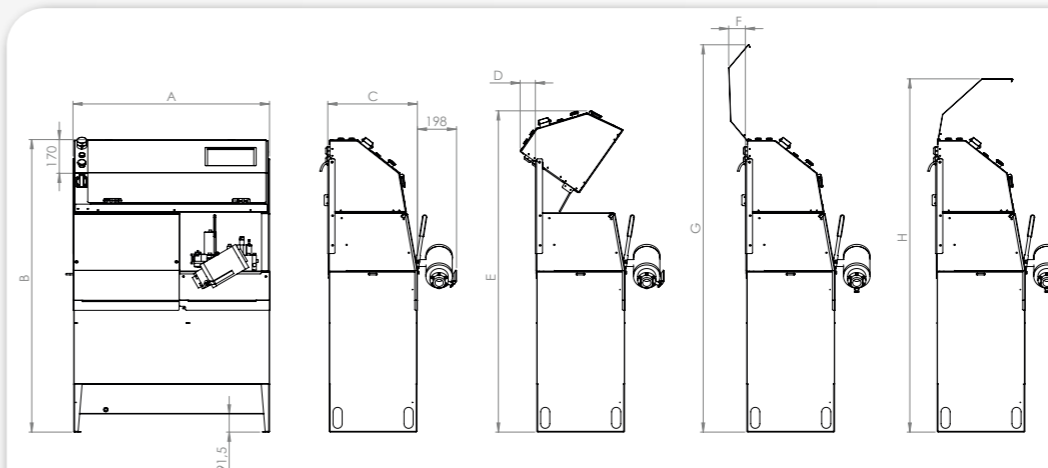


MRL	A	B	C
S	305	2771	145

MAP	A	B	C
	305,5	555	124,1

Standard dimensions



	A	B	C	D	E	F	G	H
VIDİ 140	993	1478	453	77	1623	84	1957	1785
VENI 160	993	1478	453	77	1623	84	1957	1785
VIDİ 260	1153	1528	568	0	1634	0	2008	1835
VENI 260	1153	1528	568	0	1634	0	2008	1835
VENI 380	1153	1528	568	0	1634	0	2008	1835

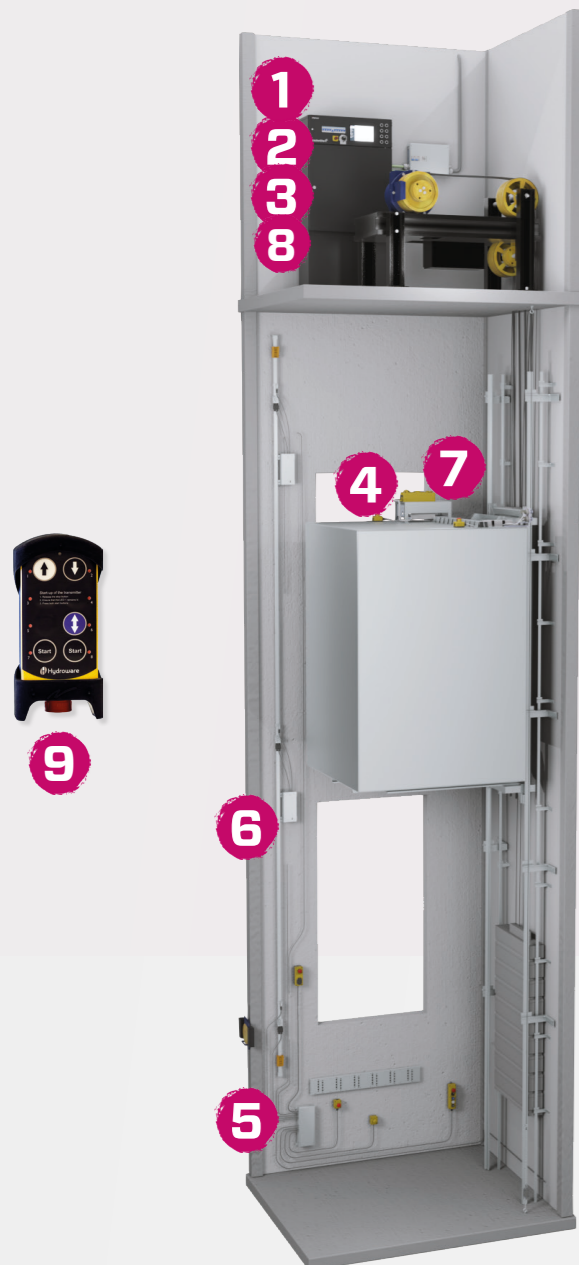
Standard dimensions  
VENI & VIDİ

Perfect for traction modernisation

\* Based on HydroElite VIDİ compared to conventional systems. VENI can give up to 50 % lower energy consumption and up to 40 % lower power demand, compared to conventional systems.



# The H2 system

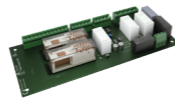


**Call controller**  
Main controller board with 3 CANopen LIFT buses



1

**Safety Board**  
With integrated safety relays



2

**HMI**  
Human Machine Interface integrated on each unit



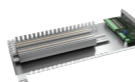
3

**Car Node**  
Smaller allowing for neater installation



4

**Pit Node**  
Reduces cables between machine room and shaft



5

**Shaft Node**  
Enables monitoring of each door and lock contact



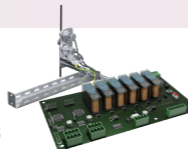
6

**I/O Card**  
Various versions of input and output cards



7

**PSU**  
Replaces limit switches and floor sensors



8

**Wireless installation handle**  
Remote control



9

## FUNCTIONS

### Remote Access & Monitoring

- Push notifications for error-messages
- Interface accesible via unit or any web browser (on-site)
- Remote monitoring via any standard web browser
- Remote control on-site via locally generated WiFi

### Doors

- Park with open car door
- Swing door with class 2 light curtain and supervised control contact
- Car door + Swing door
- Last door open
- Swing door opener
- Nudge output
- Extra door turning contacts (Motion detector)
- Battery backup door
- Door movement indicators
- Simulated door close limit
- Block door opening input
- Hidden door contacts
- Manual car door (gates)
- Door open indicator
- Pre-close indicator
- Shaft door locking magnet
- Retracting cam car door
- Gate open indicator

### Lift Features

- Fire recall (static & dynamic)
- Fireman service
- Evacuation unit
- Brake, motor and contactor monitoring
- Anti-vandal functions
- Emergency call filter
- Parking floor
- Automatic car light with function monitoring
- Car fan control
- Energy-saving functions
- Disabled call control
- Different collective modes
- Ramp control
- Group control (up to 8 lifts)
- Pawl device control
- Release close relay
- Park on intermediate floor
- Floor zone buzzer
- Retiring ramp
- Reservation (priority)
- Forwarding of alarm
- Floor indicators parallel outputs
- Car fan controlled with an input and a time out
- Phase failure indicator
- Power-save frequency inverter
- Water in pit

- Card reader
- Tamper switch
- Lift here indicator
- Occupied indication
- Machine fan
- Oil level switch
- Brake monitoring dual brakes (Daily test Kone MX machine)
- UPS drive easiest way (Traction)
- Limited refuge space according to EN81-21
- Engineers access
- Inspection indicator
- Supervised magnet reset
- Service centre alarm
- Silent mode
- Temperature controlled output
- Warming trips (hydraulic)

### Other features

- Error storage, drive and door statistics
- Operating hours, drive and door cycle counter
- The system is completely self-learning and self-adjusting (HydroElite)
- User specific sign-in







## HydroCloud IoT Connection

### HydroCloud for H2

All H2 units are prepared for HydroCloud (Hydroware's IoT solution and portal). HydroCloud enables real time and historical data on every connected HydroElite or TractionElite. Come prepared for field visits, troubleshoot remotely or making sure all documentation is updated. The IoT connection virtually puts you right in front of the lift - with safety restrictions.

#### Features

- HydroCloud Portal - view all your lifts and current status
- No App needed - use any web browser
- Push notifications
- Remote access
- Remote software updates
- Real time and historical data
- Can be adapted to work with other monitoring systems



### Real Time and Historical Data

Here are some of the features that can be viewed remotely via HydroCloud.

#### Real time data

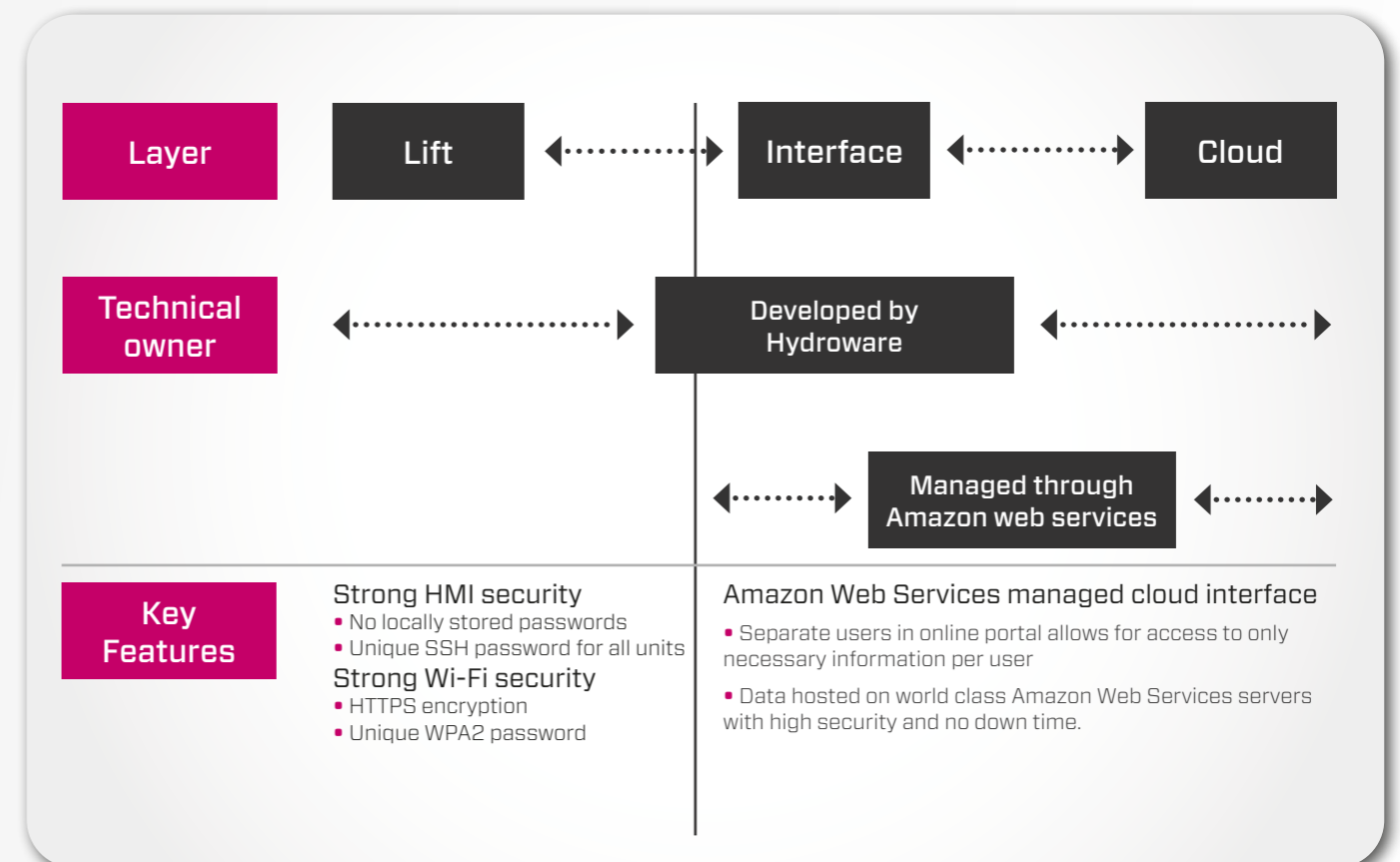
- Lift operating status
- Lift position
- Lift speed
- Safety circuit overview
- Door & light curtain status
- Machine room temperature
- Oil temperature & pressure
- Error codes
- Door zone status
- Energy consumption
- Software versions
- Lift mode

#### Historical data

- Error, historical and user log
- Most occurring errors
- Normal & re-leveling trips
- Door operations
- Lift availability
- Travel curve

### IT Security

Safety and security are of the utmost importance for connected lifts. Hydroware's secure and stable connected lifts (the Human Machine Interface) and Amazon Web Services powered cloud solution are continuously improving. The current security setup and data ownership of data is structured in this way:





# Wireless drive handle

## Suitable for all HydroElite and TractionElite

### Usage

- Hydroware's wireless drive handle system is equipped with double safety relays and an emergency stop.
- Complies to SIL3 IEC 61508 and PLe-standard.

### The product comes with the following parts

- Remote control
- Shoulder strap for remote control
- Receiver with connection cable with connector for all HydroElite and TractionElite products
- Antenna to the receiver
- Charger
- Wall bracket for charger



### Specifications for Wireless drive handle

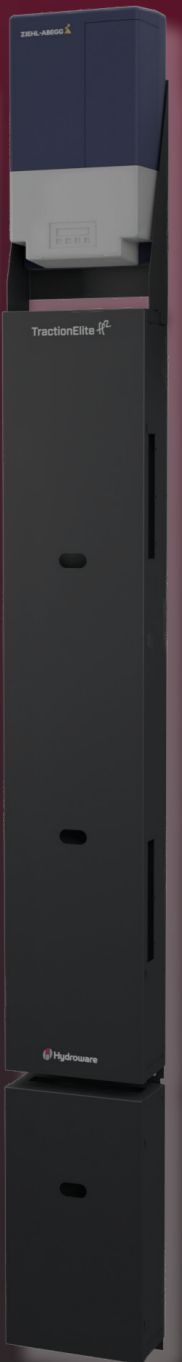
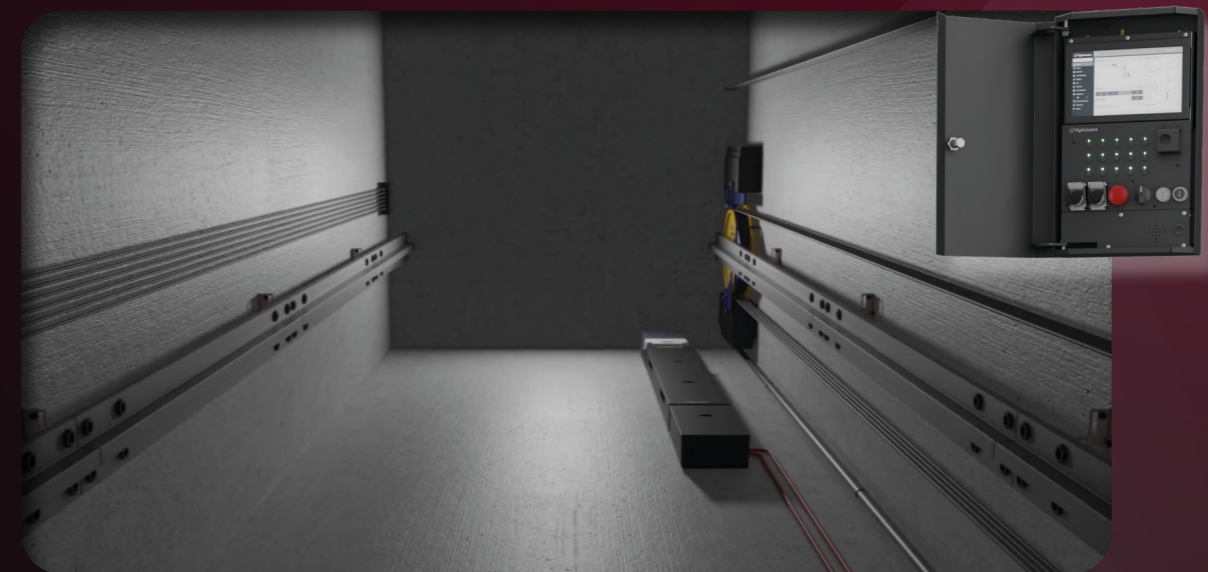
- |  |  |   |
|--|--|---|
| <ul style="list-style-type: none"> <li>Frequency: 433 MHz</li> <li>Modulation Type: FM-Modulation, narrow band</li> <li>Number of Channels: 69 channels</li> <li>Code Combination: 4,200,000,000</li> <li>Radio Type: Low IF topology</li> <li>Output Power: 10 mW (at 50 ohms)</li> </ul> | <ul style="list-style-type: none"> <li>Weight: 295 grams / ~ 0.6 pounds</li> <li>Dimensions: 76x160x37 mm / ~ 3x6.3x1.5 inches</li> <li>Protection Level: IP66</li> <li>On/Off Switch: Yes</li> <li>Safety Level: SIL3, PLe</li> <li>Range: Approximately 400 m</li> </ul> | <ul style="list-style-type: none"> <li>Number of Batteries: 1</li> <li>Battery Type: Rechargeable (Li-ion)</li> <li>Operating Time: 30 hours</li> <li>Temperature Range: -20°C to +55°C / -4°F to +130°F</li> </ul> |
|--|--|---|

# TractionElite H<sup>2</sup> MRL-S

## The smart MRL modernization solution

TractionElite H2 MRL-S awards you an ingenious solution for modernisation of MRL traction lifts with optimal flexibility. A new standard for easy application on most situations.

- Place the user interface box (approx. 550 x 330 mm dimension) anywhere in the building
- Place the controller inside the shaft
- Easy modernisation of standard existing MRL traction solutions





**Together, we are**  
*moving people into a sustainable future.*

**Headquarters: Hydroware AB**

Box 66, SE-342 21 Alvesta  
Visiting address: Fabriksgatan 13  
Phone +46 (0) 472 451 00  
[www.hydroware.global](http://www.hydroware.global)

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