



**CRAFTED EXCELLENCE
IN EVERY DETAIL**



AXON_{H2}

**REDEFINING
HYDROGEN REFUELING**

WELCOME TO THE FOREFRONT OF HYDROGEN REFUELING

ELEGANCE IN EFFICIENCY THE AXON H₂ DISPENSER

Introducing the AXON H₂, the embodiment of 40 years of fuel retailing expertise.

Minimal installation footprint and exceptional ergonomics, blending seamlessly into the fabric of forward-thinking HRS stations.

WHERE ERGONOMICS MEET EXCELLENCE

A HERITAGE OF EXPERTISE

The AXON H₂ represents four decades of pioneering excellence in fuel dispensing technology.

OPTIMIZED FOOTPRINT

Designed for optimal space utilization, the AXON H₂ ensures your installation maximizes both functionality and form.

UNRIVALED ERGONOMICS AND MATERIALS

With a user-centric design and the use of noble materials, the AXON H₂ offers an unmatched refueling experience.



SAFETY IS NOT JUST A FEATURE IT IS OUR CORNERSTONE PHILOSOPHY

With the absolute commitment to safety, the AXON H₂ dispenser embodies Hellonext's dedication to safe refueling. Each unit is governed by a Programmable Logic Controller (PLC), ensuring every refueling operation is autonomous and meticulously aligned with the highest safety codes and fueling protocols. This vigilant oversight guarantees compatibility with a broad range of vehicles, from light passenger cars (H70) to heavy-duty transport vehicles (H35), safeguarding both the operator and the environment.



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ADVANCED FEATURES FOR ENHANCED REFUELING EXPERIENCE

FULL MULTIMEDIA DISPLAY

Engage as you refuel

- The AXON H₂ boasts a 27" full multimedia display designed to present all necessary information transparently—prices, mass delivery, and clear filling instructions—enhancing safety and user confidence.
- Experience heightened interaction with real-time updates on pressure, transferred mass, and temperature throughout the vehicle filling process.
- Our system is designed to be accessible to all users, including those with mobility impairments, fostering an inclusive refueling environment.

UP TO 4 HOSES | 2 FILLING POINTS
Accommodate More, Serve Better

- Customize your service with multi-pressure configurations available in H35 and H70 or opt for both pressures in the same dispenser for diverse vehicle requirements.
- The AXON H₂, equipped (optionally) with an integrated heat exchanger, enables optimal continuous hydrogen dispensing.
- Choose from up to two hoses per side, facilitating reduced wait times.
- Standardize efficiency with a flow rate of 3.6 kg/min (60g/sec), setting the pace for industry standards.



SAFETY AND COMPATIBILITY
Communicate with Confidence

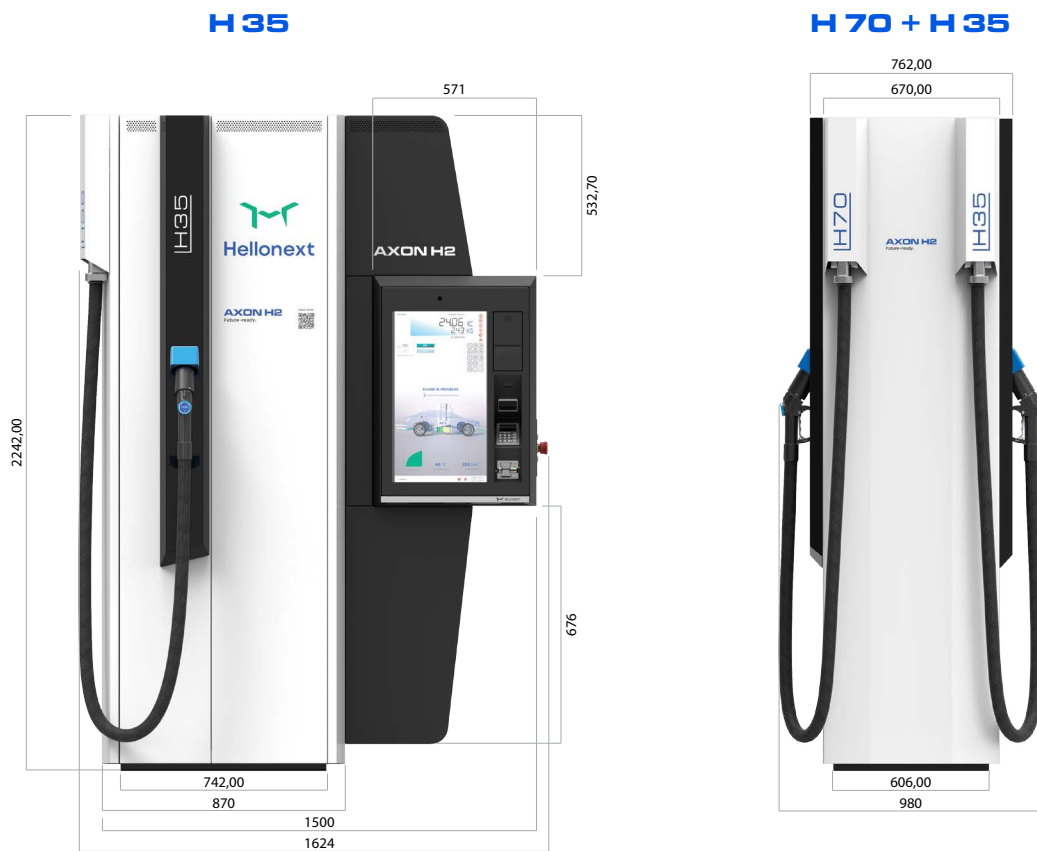
- Rely on the AXON H₂'s adherence to the most stringent fueling protocols: SAE J2601 and SAE J2601-2, ensuring a secure and compatible refueling experience for a wide array of hydrogen-powered vehicles.
- Advanced communication capabilities through infrared (IR) allow for seamless integration with existing hydrogen refueling station (HRS) management systems, offering a smart, connected solution.



INTEGRATED PAYMENT TERMINAL
Seamless Transactions

- The AXON H₂ supports an integrated OPT (Outdoor Payment Terminal), fulfilling AFIR recommendations and streamlining the payment process.
- Effortless integration with any HRS management system allows for flexible payment options, catering to various customer preferences and ensuring a smooth transaction experience.

DIMENSIONAL SPECIFICATIONS



Main Features	H35	H70	H35 & H70
Max. N° Slides	1 or 2	1 or 2	2
Max. N° Displays/Slide	1	1	1
Max. N° Filling Points	2	2	2
Max. N° Hoses	2	2	4
Oriented Hoses/ Nozzles Island	Island Lane	Island Lane	Island
Hose Connection	WEH	WEH	WEH

TECHNICAL DATA

AXON H₂

CONFIGURATION OPTIONS

CABINET	AXON H ₂
N° OF SIDES	Single sided or dual sided
HOSE ORIENTATION	Lane oriented or island oriented design
N° OF INLET LINES	From single up to three line inlet configuration, with different pressures.
N° OF HOSES PER SIDE	One hose per side (optional: two hoses per side). Hose Length (3 m)
FILLING PRESSURE	H35 – 350 BAR H70 – 700 BAR Multi-pressure configurations available
FLOW CAPACITY	Standard flow (3.6 kg/min or 60 g/s) Optional: High flow (7.2 kg/min or 120 g/s) – H35
METER TECHNOLOGY	Coriolis mass flow metering
COOLING TECHNOLOGY	Diffusion bonded internal heat exchanger – single channel.
FLOW CONTROL	Emerson pressure regulating valve (flow control valve)
FUELLING PROTOCOLS	SAE J2601 & SAE J2601-2
FILTRATION	Two hydrogen filters included per hose

COMMUNICATIONS AND USER INTERFACE OPTIONS

CABINET	Multimedia display with 27" colour display (with touch screen) Money-Mass-PPU information. EMV Level 1 & 2/PCI 4.0 Certified Pinpad Bank, Fleet and Loyalty Card Reader Contactless Card Reader (NFC) High Speed Printer w/ Paper Presenter IP54 (IP23 Card Reader & Printer)
POS CONNECTION PROTOCOLS	IFSF
COMMUNICATIONS	RS-485 for SCADA and remote monitoring connections

GENERAL SPECIFICATIONS

POWER	Europe: 220 VAC, 50 Hz, 10A
ENVIRONMENTAL CONDITIONS	Environment classes: M2 / E1 Gas Temperature Range: -40°C / +55°C Ambient Temperature Range: -25°C / +50°C
HUMIDITY	20-95% Rh (non-condensing)
DIMENSIONS	Height: 2242 mm Width: 1624 mm Depth: 980 mm
HOSE CONNECTION	WEH
TILT SENSOR	Yes
CALIBRATION AND DISPLAY	Electronic Calibration (head), Price Volume Display, Unit Price Display
PRODUCTS	Hydrogen only

REGULATORY & SAFETY

CERTIFICATIONS	CE, ATEX, PED, HGV 4.1, HGV 4.3, SAE J2601, SAE J2601-2, SAE J2799, ISO/NFPA2, NFPA 70, OIML R139, ISO 19880, and local government regulations based on region.
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CONFIGURATIONS	H35	H70	H35 & H70
FILLING POINTS/ HOSES	1P1H	1P1H	1P2H 2P2H



Hellonext

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