Case Study

THE PROJECT
A new high-tech vehicle and passenger ferry which travels daily between the north coast of Scotland and the Orkney Islands.

THE CHALLENGE
Comply with maritime safety regulations to rigorously manage access to different parts of the ship.

THE SOLUTION
A comprehensive installation of ATRIUM Access Control technology, securing 14 doors with magnetic locks and a card-controlled access system.

The MV Alfred ferry's regular crossing covers 15 miles in one hour, with capacity for up to 430 passengers and dozens of vehicles.

HOW IT WORKS

11 ATRIUM A22 controllers are networked to a computer installed on the ship's bridge. Each door or gate has a reader for access cards and an exit switch for opening or closing the magnetic lock.

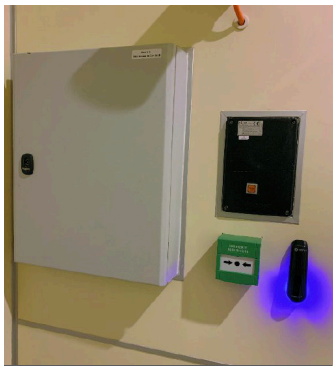
During the crossing, the vehicle deck remains locked. Doors and gates giving access to the passenger areas are secured with magnetic locks. Crew members can unlock and open these doors using ID cards.

The A22 controllers are housed in IP65-rated watertight boxes, to ensure safe operation at sea. Readers, locks, and exit switches are connected internally.

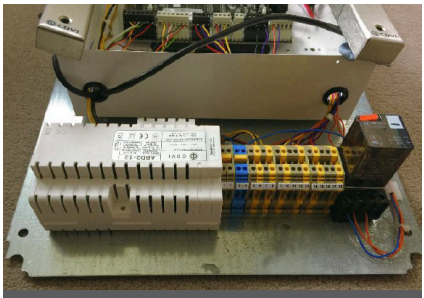
In case of an emergency, the ship's captain is able to immediately unlock all the doors with a single switch. This is controlled through an additional power supply with DIN rail terminals and a relay fitted inside the controller box.

Examples of products like those installed on the MV Alfred

Exit buttons are used to de-activate magnetic locks



The controller is housed in a watertight box for optimal safety.



The emergency universal unlock is powered by a relay and additional PSU.

The system was designed by Clyde Technologies of Edinburgh, and installed by the shipyard in Vietnam which built the vessel. It was partially commissioned before leaving Vietnam and finally fully commissioned after a 9000-mile journey in Orkney in October 2019.

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