



Gunnebo Ultra-Compact AFL-UC

Automated Boarding and Pre-Security Gate

The Ultra-Compact AFL-UC gate is designed for airports applications, but also suitable for ferry terminals, ports, railways or any mass transit environment where there is a need to direct passenger flow in one direction.

AFL-UC is the ideal solution for implementing a fully automated Pre-Security or Boarding solution in situations where, due to space constraints, standard dimensions gates would not be allowed.

AFL-UC offers a cost effective solution on state of the art technology for automatic passage control in situations with a limited budget.

Combining different technologies to effective passage detection and counting, AFL-UC passage detection algorithms constantly monitor the flow of persons through the lane, providing reliable counting and even basic fraud detection in selected scenarios.

Local and remote connectivity allows advanced gate managing and control. AFL-UC design has been optimized for easy maintenance and simplified installation. Optional base mounts are available in case it's not possible to route electrical cables under the floor.

Technical specifications

Drive

High reliability DC motor with integrated reduction gearbox and electro-mechanic brake

Materials

Casework: Brushed AISI304 Stainless Steel

Optional: Powder paint finishing

Moving panels materials: 10mm security tempered glass (default)
Transparent Polycarbonate (option)

Passage widths

- Regular 500 to 700mm
- Wide 900mm
- Possibility of Extra Wide passage width up to 1200mm

Operational principles

AFL-UC is controlled by Pre-security or Boarding application running inside the integrated PC through an advanced implementation of ModBus RTU (serial RS232) protocol.

Operation of AFL-UC is extremely flexible and highly customizable through commands and parameters

- Free, Controlled, Locked, Emergency, de-Boarding modes
- Adjustable swing panels speed and behavior in case of an obstacle is detected

Passage sensors

Controlling unit

Gunnebo NEP Lite modular electronic platform

User interface

- ModBus RTU for easy interface implementation
- Configurable digital I/O interface
- Local gate controller basic configuration
- Remote firmware upload
- Windows GUI configuration and test tool

Technical data

Power supply	115/230Vac 50/60Hz
Power rating	250VA peak / 50VA standby
Operating temperature	0°C to 50°C 95% RH non-condensing
Flow rates	Up to 40 passages per minute depending upon passenger speed of travel and IT infrastructure capacity

Advanced features

- Integrated PC for BGR application hosting
- I3 8thGen industrial PC for non-biometric applications
- I7 8thGen industrial PC with 16GB RAM for biometric applications
- 10.1 display with upper RGB light connected to BGR PC (touch option available)
- De-boarding button at exit

Optional features

Integration of several models of barcode/rfid/NDC readers:

- Desko Penta series
- Desko BCR 504 serial
- Access IS LSR 116/118
- Access AS ATR200/210

Technical specifications

Alarm conditions

Alarm triggered in case of door obstruction, wrong way/turnback and tailgating scenarios and system diagnostic failure.

Configurations

- 500/900mm clear walkways as standard options
- up to 1200mm walkaway upon request
- Single and multiple lanes configurations

Benefits

- Reduction in staffing costs
- Space optimization
- Increased security
- Unobtrusive design combined with highly glazed aesthetic
- High visibility of traveler progress

Applications

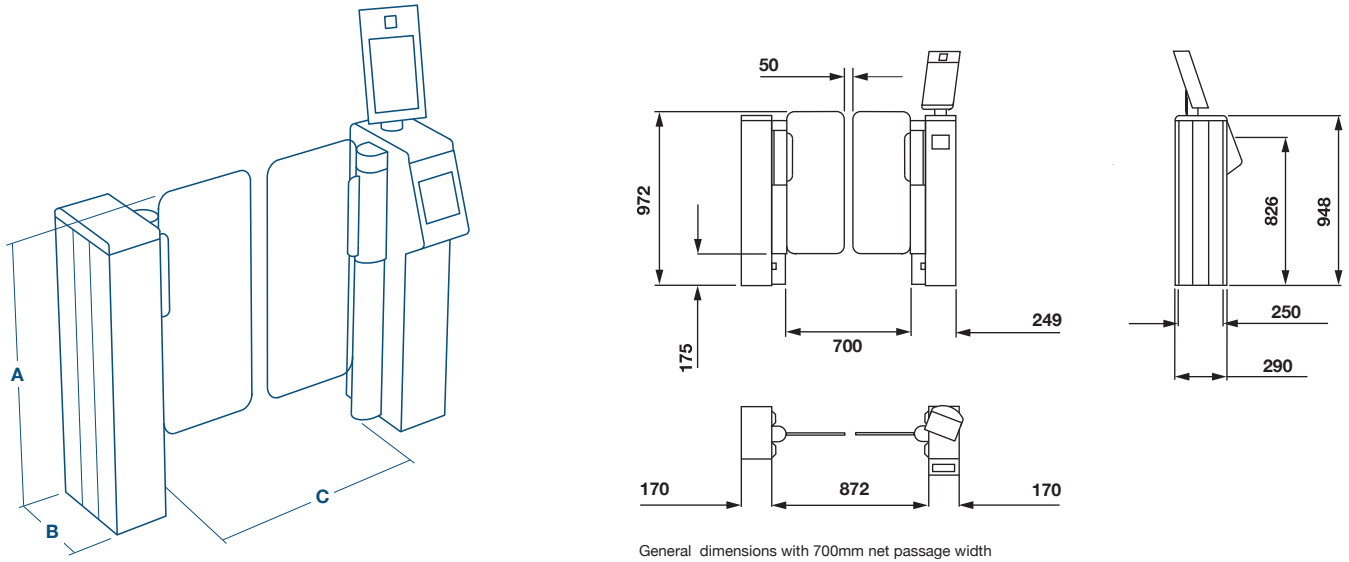
Airports

Seaports and Ferry terminals

Mass Transit applications in general



Site preparation: Barrier work



Dimensions and weight

Height (A)	Depth (B)	Regular Width (C)	Wide Width (C)	Weight
972mm	290mm	900mm	1000 up to 2000mm	-

Possibility of Extra Wide passage width up to 1200mm

1. Bolting depth MIN 100mm 150mm depth for floor drilling, concrete MIN fckcube30N/mm² resistance, MIN 1800 x 1800 (2400 for interlocking) x 150mm deep. Base dims 1932 x 1000 x 300.
2. Running MIN 200mm below finished floor level, should rise MIN 50mm from foundation.
3. Mean time To Repair.
4. Mean Cycle Between Failure.
5. Potential free contact for card reader input. New Electronic Platform with in-built RS485 and COM1 switching interface.

It is the customer's responsibility to ensure the structural integrity and strength of the installation location.

Data provided is for information only, please refer to your usual Gunnebo Customer Service contact in order to prepare the installation site.

International Standards

CE Compliance meeting the following directives:

- 2006/42/EC Machine Directive
- 2014/35/EU Low Voltage Directive
- 2014/30/EU EMC Directive

Norms

- EN 61000-6-3 (2007) Electromagnetic Compatibility – generic standard, emissions
- EN 61000-6-2 (2007) Electromagnetic Compatibility – generic standard, immunity
- EN60335-1 (2012) + EN60335-1/A11 (2014) Household and similar electrical appliances. Safety. General requirements
- EN16005 Power operated pedestrian doorsets – Safety in use – Requirements and test methods

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Learn more about our full range of airport security solutions



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