dormakaba

Argus Air
moving security

Argus Air sensor barriers: The new formula for an efficient passenger flow.

Technical Product Brochure

The Future Principle.

Modern airports now delight travellers and visitors with a wide range of amenities. With cinemas, shopping malls, ice skating rinks or butterfly gardens, they are sometimes already the real destination for people.

But the prerequisites for the "airport experience" are a smooth passenger flow and more comfort – this applies to business travellers as well as to families with children and people with mobility impairments. Naturally, airport operators and airlines place greater emphasis on maximum process efficiency. Nowadays, all aspects must be combined to everyone's satisfaction.

Reality meets vision.
But what challenges do we have to face? Passenger numbers are constantly rising, and security requirements are becoming more and more demanding, as are peoples expectations. Everyone in the industry knows the relevant buzzwords by now: **One ID, end-to-end passenger process, biometrics, immigration process or seamless travel**, to name just the most important ones. In the end, however, it always boils down to a few things – to optimize the airport experience for everyone involved, to maximize all security aspects and to standardize the airport infrastructure wherever possible.

In 20 years, an average of 179 passengers per flight is projected to be on board. In 2016 there were 111 passengers.

53 million flights

The number of flights is expected to increase from 35.5 million in 2016 to up to 53 million in 2040.*

Lars Rosenberger,
VBO Airports & Airlines
dormakaba

*Source: German Aerospace Center (DLR), 2019

"The demands of the future are great, but also incredibly exciting. We, as the experts in the industry, can make the difference here and are looking forward to those great challenges."

Time for more comfort and security. Time for a perfect solution.
dormakaba is a global player of the first hour. We have always striven to improve the passenger process and are constantly developing our products in close cooperation with our international customers. This is how the idea of modularity was born, which ensures that our solutions can be networked with a wide variety of systems and technical connections in the future. With the ability to accommodate a wide range of biometric technologies, we also increase sustainability, efficiency and security. Introducing one of the best, most flexible and economical gate system on the market: **the new Argus Air generation.**

2016

2040

The number of air passengers worldwide is expected to more than double in the next 20 years – from around 4 billion in 2016 to over 9.4 billion in 2040.*

PAX-Flow = Included.

Our new Argus Air gate solutions for airports also ensure efficient and ergonomic passenger flow thanks to biometric scanners. They cover the most important touch points in the passenger process from end to end:

Argus Air Security
Airport personnel are supported by our eGates for controlled access to the security area - smoothly and efficiently. The biometric recognition data securely links the individual characteristics with the boarding pass or ID document.

Argus Air Boarding
eGates for self-boarding support ground personnel with high speed and precision. This also gives them more time for individual support.

Argus Air Lounge
The automated access to the lounge relieves the staff, who can thus look after their guests individually and at a high level. The bidirectionality enables a comfortable process when entering and leaving the lounge area.

Argus Air Border
Secure and efficient passport control ensures clarity and supports border officials with biometric face recognition with fast border control management.

Argus solutions for airports

- 10" LCD colour display with integrated biometric face recognition
- Extremely low false acceptance and rejection rates thanks to the latest sensor technology with new light grid technology.
- High-end sensor technology: effective person and object detection by high frequency sensors and optimized algorithms
- Anti-swapping function prevents people from swapping with other people
- Intuitive user guidance through animated LED lighting
- Multicolored, configurable ambient and door lighting
- Slim and quiet drive unit
- Control unit of the current generation, UL requirements fulfilled
- Components and user interfaces arranged on the basis of the specific ergonomic studies and many years of experience
- Flexible integration of the desired components in a modular housing
- Fast boarding process with contactless control using biometric verification, also prevents fraudulent use of travel documents.
- Intuitive user-guidance for smooth procedures
- Staff support for better customer service

XEA®

Great design speaks every language.
Airports are increasingly in the focus of their visitors in terms of design language. Gate solutions must also fit seamlessly into the overall picture. In its XEA design language, the new Argus is based on a holistic approach and reflects our own demands for high quality, innovation, compatibility and aesthetics.

Know who is there. Argus Air Security.

The “self-controlled journey” begins as soon as you enter the security area. Argus Air Security ensures maximum security with a rapid flow of people.

- Access for authorized persons only
- Carried luggage and trolleys are reliably distinguished from persons
- Document readers of all common brands on the market (2D barcode readers, ID document readers etc.) can be used
- Space-saving, narrow and short construction
- Optional printer

All aboard.
Argus Air Boarding.

With seamless control, automated self-boarding provides additional security at the gate and more comfort for passengers.

- Priority and zone boarding
- Deboarding possible with the same gate
- Space-saving, narrow and short construction
- Relief of personnel, more time for passengers with special requirements
- Secure and fast identification on domestic and international flights through biometrics
- Printer with Easy Load: extremely fast and easy changing of paper rolls

You're welcome. Both ways. Argus Air Lounge.

Guests of the business lounge expect not only first-class service, but also straightforward, convenient access authorization.

- User friendly bidirectionality
- Multiple release for taking guests with you
- Identity verification through biometrics
- Exclusive access for authorized persons
- Relief of personnel, better customer service
- Elegant, inviting design
- Space-saving, narrow and short construction
- Balancing data-based system for effective and secure localization of VIP guests

Basic equipment

Argus Air Security

Construction	Interlock height	990 mm
	Interlock length	1,650 mm
	Passage width	540 mm
	Total width	991 mm
	Housing, base columns, guiding elements	Profile and inlay elements in the hand rail and in the front of the side panels are made of aluminum with NCS S 0500-N (White) / Gloss 30-40 % powder coating. Side cover is 6 mm toughened safety glass in NCS S 1002-B (White), partly transparent.
	Blocking elements	Two door leaves made of transparent toughened safety glass 10 mm with a row of light grey squares, upper edge 990 mm.
	Sensors	The sensor system is integrated in the guiding elements.
Finish	Drives	Integrated in the swing tube. Power-assisted motion; two servo-positioning drives/electrically controlled in main passage direction. Passage area with presence recognition by horizontal light grid and separation by vertical light grid right before the blocking element in main passage direction. Integrated prevention of crawling underneath, detection of children and trolleys. Safety: monitoring of pivoting range of door wings by same sensor system.
Function	Operation modes	Basic position closed: The door leaves open in the direction of passage, once authorised, and then close again.
Electric components		Control system and power supply integrated in the unit.
	Power supply	100 - 240 VAC, 50/60 Hz, 300 VA
	Standby power consumption	17 VA
	Behaviour in case of power failure	Door leaves are freely movable.
Installation		Dowelled on finished floor level FFL. Not suitable for outdoor installation!

Options

Version	Single and multiple units available.
Sensor-controlled passage width monitored	Passage width 900 mm/915 mm. Extended passage width with reduced opening angle. Sprocket brake locks when pressed.
Door leaf increase with drive unit 850 mm	Upper edge of door leaf 990 mm up to 1,300 mm (toughened safety glass 10 mm).
Scanner installation	Diverse barcode and document readers available. Customer devices may also be integrated (depending on size).
Facepod	Face pod with 10" screen and middle light with LED signal (red/green). Optional touch function, biometrics and 7" rear screen for staff. Or installation preparation for customer device.
Printer	Thermal printer for seat imprint with Easy Load for fast paper change.
User guidance	Illuminated RFID icon in white, red and green/White-red-green running light integrated in the hand rail/Animated process icons on optional facepod.
Ambient lighting	In the passage area LED white K4000/On the outside LED white K4000/Additional red and green for status display.
Use in emergency exits and escape routes	STV-ETS module for activation of emergency exits and escape routes. Integrated SafeRoute terminal incl. licenses for up to 6 units. Door leaves are freely movable/doors move to open position.
Boarding Gate Reader	Basic license, additional NFC, biometrics, touch screen, and lounge access functions. Pax Check and Pax Control licenses and further modules available.

Basic equipment

Argus Air Lounge

Construction	Interlock height	990 mm
	Interlock length	1,650 mm
	Passage width	540 mm
	Total width	991 mm
	Housing, base columns, guiding elements	Profile and inlay elements in the hand rail and in the front of the side panels are made of aluminum with NCS S 0500-N (White) / Gloss 30-40 % powder coating. Side cover is 6 mm toughened safety glass in NCS S 1002-B (White), partly transparent.
	Blocking elements	Two door leaves made of transparent toughened safety glass 10 mm with a row of light grey squares, upper edge 990 mm.
	Sensors	The sensor system is integrated in the guiding elements.
Finish	Drives	Integrated in the swing tube. Power-assisted motion; two servo-positioning drives/electrically controlled in both directions. Passage area with presence recognition by horizontal light grid and separation by vertical light grid right before the blocking element in main passage direction. Integrated prevention of crawling underneath, detection of children and trolleys. Safety: monitoring of pivoting range of door wings by same sensor system.
Function	Operation modes	Basic position closed: The door leaves open in the direction of passage, once authorised, and then close again.
Electric components		Control system and power supply integrated in the unit.
	Power supply	100 - 240 VAC, 50/60 Hz, 300 VA
	Standby power consumption	17 VA
	Behaviour in case of power failure	Door leaves are freely movable.
Installation		Dowelled on finished floor level FFL. Not suitable for outdoor installation!

Options

Version	Single and multiple units available.
Sensor-controlled passage width monitored	Passage width 900 mm/915 mm. Extended passage width with reduced opening angle. Sprocket brake locks when pressed.
Door leaf increase with drive unit 850 mm	Upper edge of door leaf 990 mm up to 1,300 mm (toughened safety glass 10 mm).
Scanner installation	Diverse barcode and document readers available. Customer devices may also be integrated (depending on size).
Facepod	Face pod with 10" screen and middle light with LED signal (red/green). Optional touch function, biometrics or installation preparation for customer device.
Printer	Thermal printer for seat imprint with Easy Load for fast paper change.
User guidance	Illuminated RFID icon in white, red and green/White-red-green running light integrated in the hand rail/Animated process icons on optional facepod.
Ambient lighting	In the passage area LED white K4000/On the outside LED white K4000/Additional red and green for status display.
Use in emergency exits and escape routes	STV-ETS module for activation of emergency exits and escape routes. Integrated SafeRoute terminal incl. licenses for up to 6 units. Door leaves are freely movable/doors move to open position.
Boarding Gate Reader	Basic license, additional NFC, biometrics, touch screen, and lounge access functions. Pax Check and Pax Control licenses and further modules available.

Basic equipment

Argus Air Boarding

Construction	Interlock height	990 mm
	Interlock length	1,650 mm
	Passage width	540 mm
	Total width	991 mm
	Housing, base columns, guiding elements	Profile and inlay elements in the hand rail and in the front of the side panels are made of aluminum with NCS S 0500-N (White) / Gloss 30-40 % powder coating. Side cover is 6 mm toughened safety glass in NCS S 1002-B (White), partly transparent.
	Blocking elements	Two door leaves made of transparent toughened safety glass 10 mm with a row of light grey squares, upper edge 990 mm.
	Sensors	The sensor system is integrated in the guiding elements.
Finish	Drives	Integrated in the swing tube. Power-assisted motion; two servo-positioning drives/electrically controlled in main passage direction. Passage area with presence recognition by horizontal light grid and separation by vertical light grid right before the blocking element in main passage direction. Integrated prevention of crawling underneath, detection of children and trolleys. Safety: monitoring of pivoting range of door wings by same sensor system.
Function	Operation modes	Basic position closed: The door leaves open in the direction of passage, once authorised, and then close again.
Electric components		Control system and power supply integrated in the unit.
	Power supply	100 - 240 VAC, 50/60 Hz, 300 VA
	Standby power consumption	17 VA
	Behaviour in case of power failure	Door leaves are freely movable.
Installation		Dowelled on finished floor level FFL. Not suitable for outdoor installation!

Options

Version	Single and multiple units available.
Sensor-controlled passage width monitored	Passage width 900 mm/915 mm. Extended passage width with reduced opening angle. Sprocket brake locks when pressed.
Door leaf increase with drive unit 850 mm	Upper edge of door leaf 990 mm up to 1,300 mm (toughened safety glass 10 mm).
Scanner installation	Diverse barcode and document readers available. Customer devices may also be integrated (depending on size).
Facepod	Face pod with 10" screen and middle light with LED signal (red/green). Optional touch function, biometrics and 7" rear screen for staff. Or installation preparation for customer device.
Printer	Thermal printer for seat imprint with Easy Load for fast paper change.
User guidance	Illuminated RFID icon in white, red and green/White-red-green running light integrated in the hand rail/Animated process icons on optional facepod.
Ambient lighting	In the passage area LED white K4000/On the outside LED white K4000/Additional red and green for status display.
Use in emergency exits and escape routes	STV-ETS module for activation of emergency exits and escape routes. Integrated SafeRoute terminal incl. licenses for up to 6 units. Door leaves are freely movable/doors move to open position.
Boarding Gate Reader	Basic license, additional NFC, biometrics, touch screen, and lounge access functions. Pax Check and Pax Control licenses and further modules available.

Space for your notes

Our Sustainability Commitment

We are committed to foster a sustainable development along our entire value chain in line with our economic, environmental and social responsibilities toward current and future generations. Sustainability at product level is an important, future-oriented approach in the field of construction. In order to give quantified disclosures of a product's environmental impact through its entire life cycle, dormakaba provides Environmental Product Declarations (EPD), based on holistic life cycle assessments.

www.dormakaba.com/sustainability

Our offering

Access Automation Solutions

Entrance Automation
Entrance Security

Access Control Solutions

Electronic Access & Data
Escape and Rescue Systems
Lodging Systems

Access Hardware Solutions

Door Closers
Architectural Hardware
Mechanical Key Systems

Services

Technical Support
Installation and commissioning
Maintenance and Repair

WN 05524251532, EN, 09/2023
Subject to change without notice

dormakaba.com

dormakaba
International Holding AG
Hofwisenstrasse 24
CH-8153 Rümlang
T +41 44 818 90 11
info@dormakaba.com
dormakaba.com