ARMATURA

User Manual

Aegis-1000&Aegis-2000

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The product will be updated from time to time without prior notice. The latest operation procedures and relevant documents are available on https://armatura.us/

If there is any issue related to the product, please contact us.

ARMATURA Headquarters

Address 190 Bluegrass Valley Parkway Alpharetta, GA 30005

Phone +1-650-4556863

Email: sales@armatura.us

Website: www.armatura.us

About the Manual

This manual introduces the operations of **Aegis-1000&Aegis-2000**.

All figures displayed are for illustration purposes only. Figures in this manual may not be exactly consistent with the actual products.

Table of Contents

1 Product Introduction

1.1 Model Number and Access Control

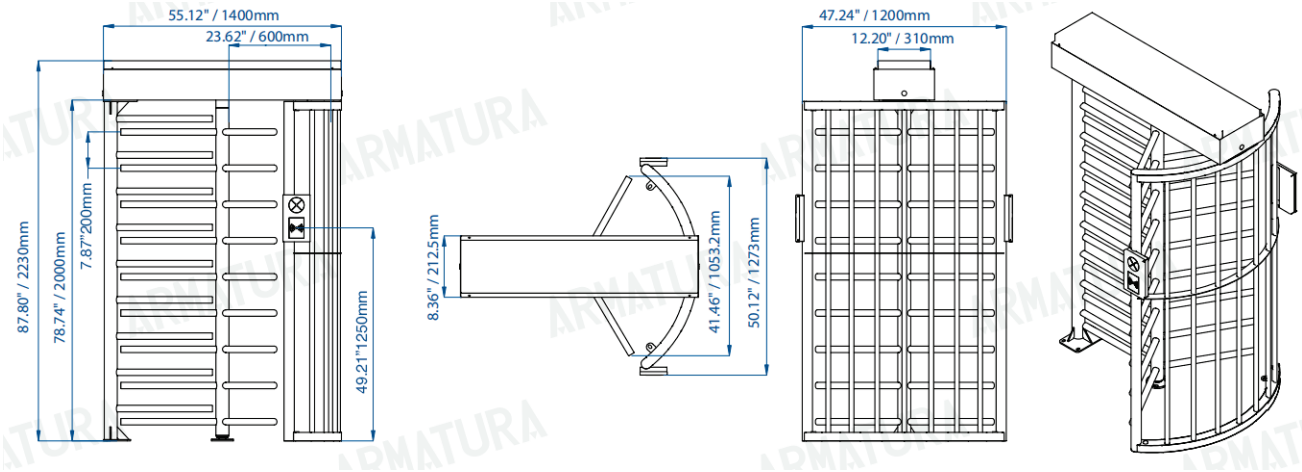
Access / Model	No	With RFID Access Control System	With Fingerprint and RFID Access Control System	QR Code
Aegis-1000	√			
Aegis-1011		√		
Aegis-1022			√	√ (Optional)

Access / Model	No	With RFID Access Control System	With Fingerprint and RFID Access Control System	QR Code
Aegis-2000	√			
Aegis-2011		√		
Aegis-2022			√	√ (Optional)

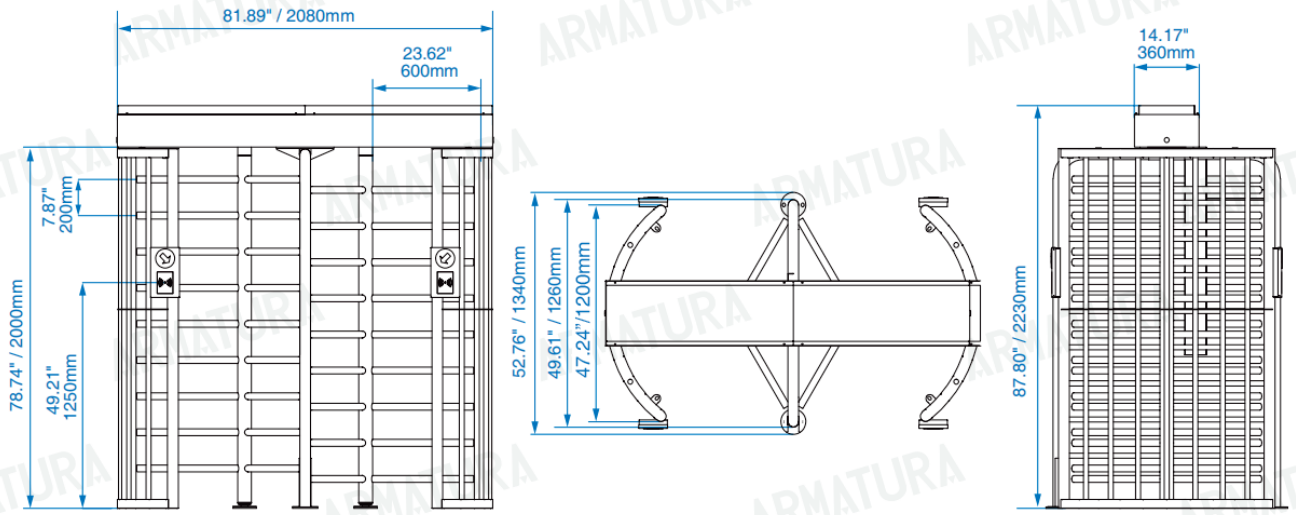
1.2 Structures and Dimensions

Aegis-1000 series and Aegis-2000 series has stainless steel casing, which provides corrosion resistance and durability.

The appearance and dimensions are shown below:



Aegis-1000 series



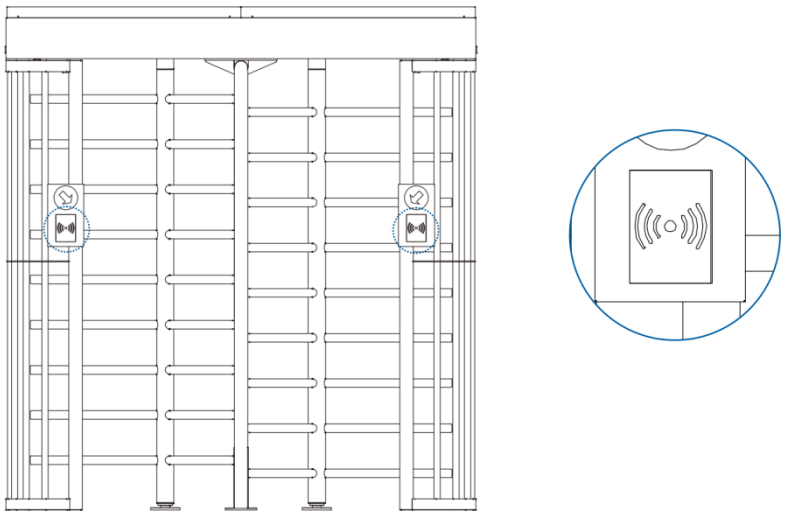
Aegis-2000 series

1.3 Mechanical System of Aegis-1000&Aegis-2000 Series

The mechanical system of the full height turnstiles includes a mainframe box and a frame.
The direction indicator, core, control panel, access controller and lock are installed in the mainframe box. The core component mainly consists of two solenoids, a spring and a transmission mechanism. The frame supports the entire mainframe box.

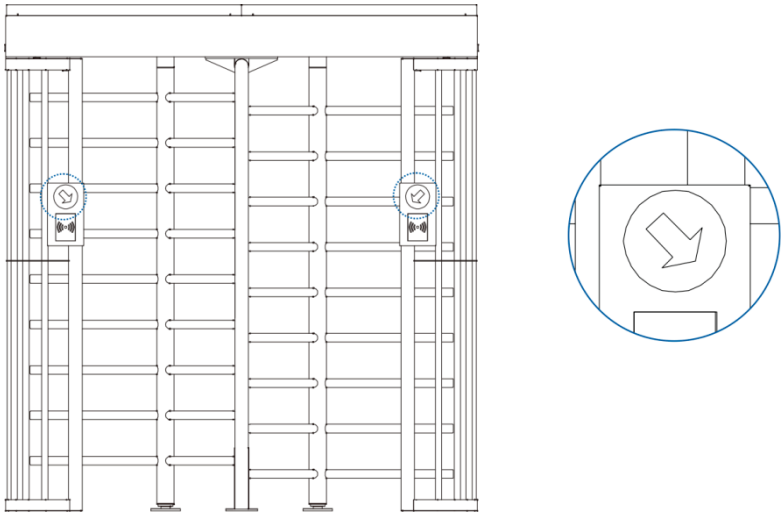
1.4 Electronic Control System

The electronic control system of the full height turnstile is composed of reader, control panel, access controller, direction indicator, speaker, and transformer.
Reader: The reader reads the data from the card and sends it to the controller.



Control panel: The control panel is the system's control center that receives signals from the controller. After the signals have been processed by the control panel, the control panel will deliver commands to the indicator.

Direction indicator: This indicator displays the current status of the sign at the channel, and directs the pedestrian to pass the channel.



1.5 The Working Principle of Full Height Turnstiles

1. After the power is turned on, the system will perform self-check. If no fault is detected, the device will operate as usual. If a fault is detected, the system will display the related messages on the LCD screen. This can be useful for error checking and troubleshooting.
2. When the reader detects a valid signal, the buzzer will give pedestrians a voice prompts to remind pedestrians have been successful credit card. And then, the reader sends signals to the access controller to request permission to pass through the passage. After the access controller send the signals to the control panel, the control panel will send out a pass.
3. After receiving the signal from the access controller, the control panel sends signals to the direction indicator and solenoid. Then the direction arrow will turn green. Also the solenoid will loose that the pedestrian can push the rod to pass the passage.

1.6 Technical Specifications

Model	Aegis-1000	Aegis-2000
Audio Indicator	Internal Buzzer	
Visual Indicator	LED visual indicators integrated into the vertical column Red cross: passage denied Green arrow: passage allowed	
Lane Type	Single lane	Dual lane

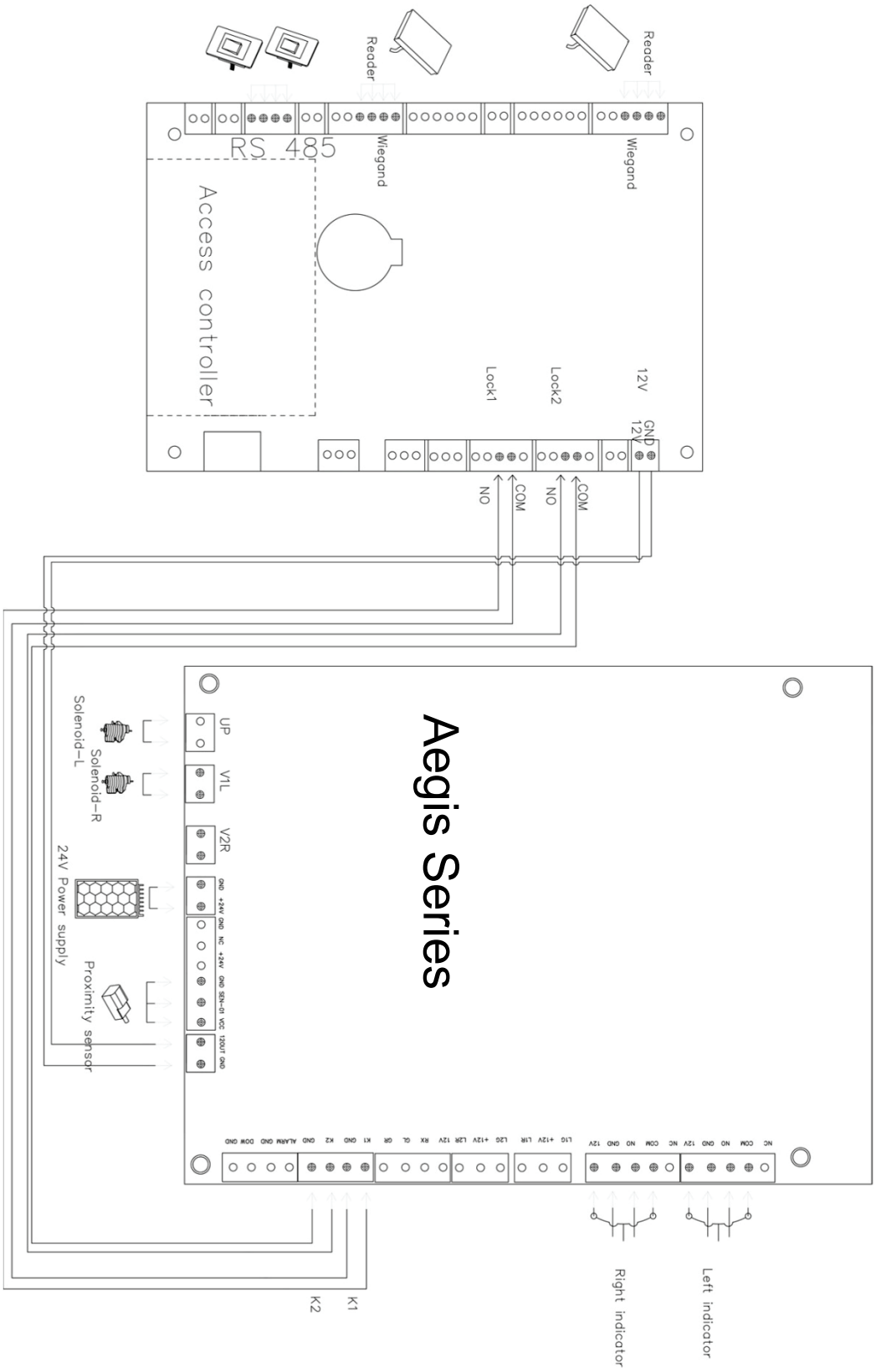
Lane Width	23.62"(600mm)
Barrier Movement Type	Full-height rotating turnstile
Movement Speed	Up to 30 people per minute
Barrier Material	SUS304 Stainless Steel SUS316 Stainless Steel (Optional)
Cabinet Material	SUS304 Stainless Steel SUS316 Stainless Steel (Optional)
Lid Material	SUS304 Stainless Steel SUS316 Stainless Steel (Optional)
Motherboard Function	System configuration, entry log memory, safety logic
Motherboard Communication	Fire alarm port (Relay) * 1, RS485 port * 1
Controller	Standard full height turnstile controller
Credential Options	RFID & Mobile Credentials: EP10C, EP20 Series, VG10CKQ series (Recommended) or 3rd Party Readers Biometrics: EP30CF (Fingerprint with RFID and Mobile Credentials), OmniAC20, FT10CMQ (Face, Palm, RFID and Mobile Credentials)
Flow Rate	RFID: 30 passengers per minute QR Code: 30 passengers per minute Fingerprint: 20 passengers per minute
Accessibility	23.62"(600mm) standard lane for pedestrians
Power Supply	100 - 240 VAC, 50 / 60 Hz
Power Rating	40 VA (Standby), 200 VA (Operation)

Fire Signal	Input for voltage - free contact	
Noise Level	Less than 65 dB	
MTTR	Less than 60 minutes	
MCBF	2 million cycles	
Weight	Gross Weight: 473.99lb / 215kg Net Weight: 291.01lb / 132kg	Gross Weight: 590.84lb / 268kg Net Weight: 392.42lb / 178kg
Dimensions (L*W*H)	55.12" x 50.12"x 87.80" (1400 x 1273 x 2230mm)	81.89"x52.76"x87.80" (2080 x1340 x2230mm)
Dimensions with Packaging (L*W*H)	41.97" x 55.75" x 88.19" (1066 x 1416 x 2240mm)	44.49”x 57.09”x 87.95" (1130x 1450x 2234mm)
Operating Temperature	-18.4°F to 140°F(-28°C to 60°C)	
Operating Humidity	20% to 95% RH (non - condensing)	
Certifications	Compliant with global safety and security standards	
Ingress Protection Rating	IPX4	
Supported Software	Armatura One	
Safety Features	Power - off, Fail - safe, Emergency escape function	
Security Features	Anti - tailgating, Anti-intrusion, Auto - close mechanism	
Product Delivery	Pre-assembled for easy installation	
Application Environment	Indoor and Outdoor	
Site Preparation	Flat and level finished floor (optional base plate for unfinished floors)	

Security Level	High
Emergency Mode	Barrier unlocks automatically during emergencies
Packing Material	Wooden Box

2 Wiring Diagram

Check circuit according to the following wiring diagram:



2.1 DIP Switch

PIN	Function Setting	Default
1	Opening duration	1
2	Opening duration	1
3	Opening duration	1
4	Direction indicator	0
5	Direction indicator	0
6	Memory function	1
7	Memory function	0
8	Testing mode	0

Opening Duration			
Bit setting	Duration	Bit setting	Duration
111	5s	011	30s
110	10s	010	40s
101	15s	001	50s
100	20s	000	60s

Direction Indicator	
Bit setting	Direction
00	Passing is allowed in both directions
01	One way traffic, right passing is allow
11	One way traffic, left passing is allow
10	Both ways forbidden

Memory Function	
Bit setting	Memory
00	Unable memory function
10	Allow memory function

Alarm	
Bit setting	Solenoid automatically open and close
0	Unable auto testing
1	Allow auto testing

3 Product Maintenance

3.1 Mainframe-box Maintenance

The mainframe box is made of 304 stainless steel. After a long period of operation, its surface may develop some stains. You can use gauze to clean the mainframe box. To protect the surface grain, please wipe along the direction of the lines. It is best to polish and wax the surface regularly.

3.2 Movement Maintenance

Cut off power supply before maintenance. Open the barriers and clean the dust on surface, add lubricating oil to the transmission mechanism. Check and tighten others connection parts.

3.3 Power Maintenance

[Warning]:
- Disconnect main power supply before maintenance.

The following maintenance procedures must be performed by qualified electrician and installer only.

To ensure operational safety, always disconnect the main power supply before servicing the turnstile, especially when working on the internal mechanism and electrical control components.

Inspect Power Connections: Check if the main power plug is loose. If it is, tighten it securely.

Verify Wiring: Do not alter or randomly change any wiring connections from their original positions.

Inspect External Power Cable: Check the external power supply cable for any exposed wiring or damage. If any is found, wrap the area with approved electrical insulation immediately.

Check for Leakage: Inspect the system for any current leakage. If leakage is detected, it must be resolved immediately by a qualified technician.

Verify System Parameters: Check that the technical parameters at the electrical interfaces are within their normal specified ranges.

Inspect Electronic Components: Periodically inspect all electronic components for signs of aging or damage and replace them as needed.

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ARMATURA LLC www.armatura.us E-mail:sales@armatura.us