

Automatic Gate AG-21

Ticketing Solutions Automatic Gate Machine

Contactless Card and QR Code validator to manage access
to railway and Metro



**Chassis
Stainless Steel
(AISI 304/
AISI316)
EMV 2.0**

**Maximum
Height of
Obstacle: Up
to 1600mm**

TFT Display

**Scanning
Performance
on Virtually
Any 1D & 2D
Barcode**

Ticketing Solutions

Automatic Gate Machine

Contactless or QR code-based ticket validating

The Automatic Gate AG-21, is a device designed for validating transport tickets, whether contactless or QR code-based.

It allows or denies users passage and simultaneously informs the user about the device's status (enabled or disabled), the validation result, passage authorization, and other information external to the device itself.

A complete gate consists of two units, two chassis, with retractable gates, one on each side of the passageway. These two units are also part of the access control system for adjacent passageways.

Therefore, the equipment for controlling a gate is distributed between the two units that make up the passageway. This means that testing is performed on the gates themselves, not the units.

However, one of the two units houses the gate control PC; therefore, this is called the master unit (usually located on the right side of the passageway as viewed from the station entrance), and the other unit is called the slave unit (generally the one on the left).

Main functions of access control barriers

- › To allow passage to passengers with valid tickets and/or transport cards, and to block passage to passengers without tickets.
- › To inform passengers, through permitted/prohibited signage, about the equipment they can use at each station and at any given time, and to notify them via a TFT display of the actions they must take and the results thereof.
- › To allow safe passage for passengers with valid tickets using photoelectric cells that track their movement and prevent accidents with the flaps.
- › To indicate to passengers, using pictograms, that a barrier is inoperative when it has been activated in the opposite direction.
- › To perform these functions, the equipment includes the following components, integrated into the two units that make up the Access Control Unit:
 - › The unit's control electronics (unit CPU mounting plate).
 - › Opening and closing mechanism (right and left sides)
 - › Contactless entry and exit validators
 - › Contactless EMV bank card reader (entry)
 - › Barcode readers (entry and exit)
 - › User displays (entry and exit)
 - › Front information displays (entry and exit)
 - › Photocells connected to the CAN bus (26 units)
 - › LED lighting system
 - › Entry and exit cameras

The commissioning of all these elements is described in detail in the following chapters and will ensure the perfect operation of the crossing.

Key Features

- › Modern and avant-garde image
- › Retractable Gates
- › TFT up to 10" LCD User Monitor (Touch Screen available)
- › Contactless Smart Card Reader
- › 1D / 2D Barcode Reader
- › Contactless payment
- › LAN / Wi-Fi / 4G connectivity
- › Anti-burglary system
- › Loudspeakers
- › Suitable for indoor and covered outdoor installations
- › Vandal resistant
- › Customizable Layout
- › Accessibility
- › Smart obstacle detection

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Technical Information

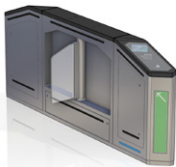
Dimension	(L)2000 x (H) 1050x (W)330/470 mm
Weight	315Kg
Interface	Ethernet
Connector	Shielded RJ45 connectors (external interface) AC input power terminals Internal distribution terminal blocks
Input Voltage	230 VAC ±10 % (50 Hz)
Power	0,9 A (Nominal current) 1,1 A (Inrush current)
Processor	Intel® Core™ i7-1260P (4.7GHz, 12-core)
Ports	3x 2,5GbE LAN 1x GPIO 1x MIC in 1x line Out 4x USB 2.0 2x USB 3.2 2x RS-232 2x RS-422/RS-485 1x HDMI 1x DP
PCI Express	1x PCIe
USB	4x USB 2.0 2x USB 3.2
Wireless connectivity	N/A
Serial	2x RS-232 2x RS-422/RS-485
Power Consumption	0,9 A (Nominal current) 1,1 A (Inrush current)
Cooling	Fanless (PC) Natural convection inside enclosure
Operating System	Linux
Ethernet	Gigabit Ethernet
Mountin	Floor-mounted
Operating Temperature	(-20 - 70) °C
WIFI	N/A

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Related Products

Smart Gate SG-21

Contactless Card and QR Code validator for railways and Metro Stations.



Ticket Vending Machine MAU-36

Smart and Secure Ticket Vending Machine for Transit Environments.



Platform Validator PV-52

Contactless Card and QR Code validator for railways and Metro Stations.



Kontron Public Transport Arce S.A.

Plaza Euskadi 27 9th floor
48009 Bilbao
Spain

kpta-es-sales@kontron.com
www.kontron.com

Vía de las Dos Castillas, 33, tica
Edificio 7 – 2 planta
28224 Pozuelo de Alarcón
(Madrid) Spain



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