

Smart Gate SG-21

Ticketing Solutions Automatic Gate Machine

Contactless Card and QR Code validator for railways and Metro Stations



**IP cameras
and Integrated
Audio System**

**Chassis
Stainless Steel
AISI 304**

**Maximum
Height of
Obstacle: Up
to 1000mm**

**RGB LED
Guiding
Lighting
System**

**2 x Scanning
Performance
on Virtually
any 1D &
2D Barcode
Device**

Ticketing Solutions

Automatic Gate Machine

Contactless or QR code-based ticket validating

The Smart Gate SG-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 swing 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), sliding gates type
- › Contactless entry and exit validators
- › Contactless EMV bank card reader (entry)
- › Barcode readers (entry and exit)
- › User displays (entry and exit)
- › Photocells connected to the CAN bus (14 units)
- › LED lighting system

Key Features

- › Modern and avant-garde image
- › Swing Gates
- › TFT up to 10" LCD Monitor (Touch Screen available)
- › TFT up to 24" General Purpose Monitor
- › Contactless Smart Card Reader
- › 1D / 2D Barcode Reader
- › Contactless payment
- › LAN / Wi-Fi / 4G connectivity
- › Anti-burglary system
- › Loudspeakers
- › Suitable for indoor and outdoor installations
- › Vandal resistant
- › Customizable Layout
- › Accessibility
- › Smart obstacle detection

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Technical Information

Dimension	1000 x 200 x 2500 mm
Weight	235Kg
Interface	Ethernet
Connector	Shielded RJ45 connectors (external interface) AC input power terminals Internal distribution terminal blocks
Input Voltage	230 VAC $\pm 10\%$ (50 Hz)
Power	0,75 A (Nominal current) 1,24 A (Inrush current)
Processor	Intel® Pentium® N4200 @ 1.1 GHz
Ports	2x 2,5GbE LAN 1x GPIO 1x MIC in 1x line Out 4x USB 3.0 3x RS-232 1x RS-232/422/485 2x HDMI
PCI Express	1x mPCIe
USB	4x USB 3.0
Wireless connectivity	N/A
Serial	2x RS-232 1x RS-232/485
Power Consumption	0,75 A (Nominal current) 1,24 A (Inrush current)
Cooling	Fan PC Natural convection inside enclosure
Operating System	Linux
Ethernet	Gigabit Ethernet
Mountin	Floor-mounted
Operating Temperature	(-0 - 60) °C
WIFI	N/A

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Related Products

Smart Gate AG-21

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



Platform Validator PV-52

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.



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