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Automatic entry and exit of vehicles

Automatický vjezd a výjezd vozidel

High resistance against damage

Vysoká odolnost proti poškození

Adjustable display design

Přizpůsobitelný vzhled displeje

Wide spectrum of configurations

Široké spektrum konfigurací

Fast check-in/out of drivers

Rychlé odbavení řidičů



ENTRY AND EXIT TERMINAL
VJEZDOVÝ A VÝJEZDOVÝ TERMINÁL

GP4T

BASIC INFORMATION

Terminals are used as check-in/out points for automatic entry and exit of vehicles. Drivers can control the terminals without having to leave their cars. Terminals are protected against misuse by induction loops installed in front of them. Terminals become active only if there is a vehicle detected above the induction loop. The design of both the entry and exit terminal cabinets is the same, their specific use depends on the peripherals installed in the front panel.

FEATURES

- automatic entry and exit of vehicles
- front panel equipped with anti-vandal push buttons (the intercom communication push button, button for the issue of tickets at the entry terminal)
- customer information display
- heating unit with automatic thermostatic regulation to maintain optimum working temperature inside of the cabinet
- operation controlled by a microprocessor unit
- control of access devices (barriers, gates, etc.)
- input for a dual channel vehicle detector (monitoring of the presence of vehicles above the loop detector and under the barrier arm)
- output for a semaphore and an occupancy information display

MAIN ADVANTAGES

- fast check-in/out of drivers
- a possibility to tip out the front panel for easy access to and handling of components inside
- backlit display making the shown information easy to read even in adverse light conditions
- a possibility to adapt the display appearance
- high resistance of push buttons to mechanical damage
- a possibility of extension by additional peripherals
- wide range of possible configurations

OPTIONAL ACCESSORIES

- alphanumeric or graphic display for the depiction of information important for the car park customers
- substitution of paper tickets for fan-fold parking cards
- bar code printer
- omni-directional bar code reader with multibeam and laser scanning
- contactless media dispenser
- proximity card reader
- motorized reader of plastic parking cards
- magnetic card dispenser
- magnetic card printer
- magnetic card reader
- external reader of contactless cards of a third party, based on a customer's requirement
- intercom (a communication device)

OTHER PARAMETERS

Material	steel metal sheet of the 2 mm thickness
Dimensions	400 × 460 × 1170 mm
Weight	42 kg
Ingress Protection	IP 54
Power consumption in the idle state	20 W
Maximum power consumption	550 W (150 W power supply + 400 W heating)
Working temperature	-25 °C to +45 °C
Check-in/out capacity	up to 600 vehicles per 1 hour
Number of paper cards	up to 11 500 pcs with Hengstler dualfeed

ENTRY TERMINAL

The entry terminal is located at the car park entry and it allows drivers automatic entry.

ENTRY PROCESS

- ① The driver arrives at the entry terminal and presses the button for the parking ticket issue.
- ② The issue of a ticket is conditioned by the presence of a vehicle at the entry terminal while the presence of the vehicle is monitored by the induction loop detector. If the terminal recognizes the presence of a vehicle, it issues a parking ticket to the driver. If not, the issue of a parking ticket is not enabled.
- ③ After the driver has taken the parking ticket from the slot, the barrier arm is raised.
- ④ The barrier closes after the vehicle has left the security induction loop under the barrier arm.

FUNCTIONS AND FEATURES

- automatic issue of short-term parking cards (single entry bar code parking tickets/cards, magnetic stripe paper cards) only when a vehicle is detected above the induction loop in front of the terminal
- check of the authorization to enter the car park and the permitting of the entry
- authentication of the validity of congress, long-term and prepaid value parking cards
- automatic blocking of the issue of further parking cards when the car park is fully occupied
- notification of the lack of paper for parking card printing before it runs out
- dispensing slot equipped with the parking card sensor
- highly resistant stainless steel push button for the issue of parking cards

EXIT TERMINAL

The exit terminal is located at the car park exit and it allows drivers automatic exit.

EXIT PROCESS

- ① Prior to the exit from the car park, the customer needs to pay a fee for used parking services in the automatic pay station or manual pay station.
- ② The driver places the paid parking ticket to the exit terminal scanner and, after the barrier has raised, he or she leaves the car park area.
- ③ If the induction loop detector recognizes the presence of a vehicle, the terminal gives a command to the automatic road barrier to open and the driver can leave the car park.
- ④ The barrier closes only after the vehicle has left the security induction loop under the barrier arm.
- ⑤ If the parking fee was not paid, the parking ticket would not be accepted by the terminal and the driver would not be allowed to leave the car park.

FUNCTIONS AND FEATURES

- reading of parking cards of leaving vehicles
- check of the authorization to exit from the car park and the permitting of the exit
- authentication of the validity of parking cards
- check of the parking fee payments
- automatic invalidation of a single entry parking card after the vehicle's exit
- mechanism for preventing multiple exits with the use of one parking card