

# GAT Access 6200 Access Control Terminal

## Application

The GAT Access 6200, in combination with an external RFID antenna (Radio Frequency Identification), is a powerful and universal solution for access control in leisure facilities such as swimming pools, spas and gyms. System users are identified using their contactless RFID (Radio Frequency Identification) data carriers.

The terminal is ideally installed out of sight in a secure area. The different GAT Access 6200 models and various RFID readers (see order information) provide flexibility for use with different RFID technologies.



## Functional description

To gain access to a restricted area in the leisure facility, the user holds their data carrier next to the RFID reader of the connected antenna. The GAT Access 6200 receives the data carrier information and checks the user's authorization. When the user's authorization is valid, the GAT Access 6200 allows access to the restricted area.

Different types of RFID antennas are available (see accessories). There are also different types of RFID data carriers available such as member cards and wristbands.

## Highlights

- Activation of turnstiles, doors, etc., via 4 relay outputs
- 4 feedback inputs
- Ethernet 10/100 MBit connection
- Serial RS 485 interface
- Online operation
- Different integrated reader types (LEGIC, ISO 15693, MIFARE®)
- Various types of RFID antennas can be connected
- Secure data transmission between reader and data carrier
- Wall mounting and plug-in connections for easy and fast mounting
- Plug & Play installation
- All connections of plug-in design
- Mechanical lock provides security against unauthorized access

## Order information

Description	Part No.
<b>GAT Access 6200 B</b> Access control terminal with integrated RFID reader (LEGIC) and connection for one external antenna	826786
<b>GAT Access 6200 F</b> Access control terminal with integrated RFID reader (MIFARE®) and connection for one external antenna	826887
<b>GAT Access 6200 ISO</b> Access control terminal with integrated RFID reader (ISO 15693) and connection for one external antenna	826988

## Accessories

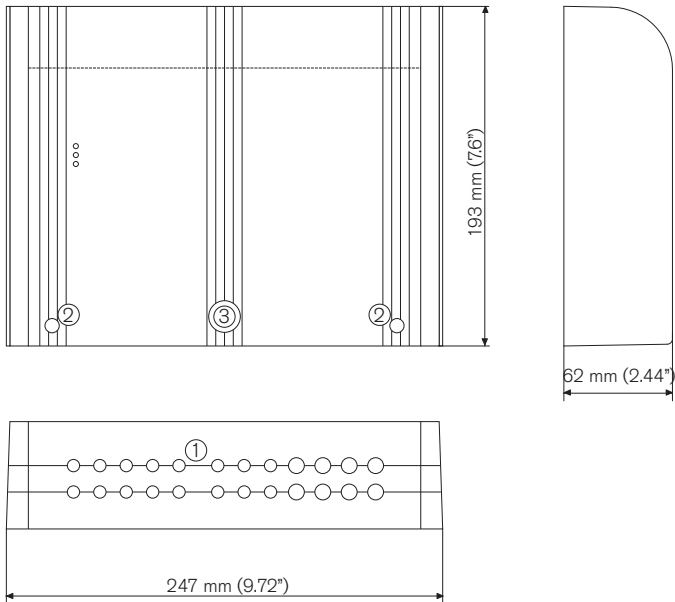
Description	Part No.
<b>GAT IB 001</b> Clamps for mounting GAT Access 6200 on DIN top hat rail, includes mounting material	506074
<b>Mounting Material</b> Set with wall holder, screws and mounting material	414577
<b>GAT SLA 300</b> Slim-line RFID antenna for 13.56 MHz systems	909586
<b>GAT SA 750 EB</b> RFID antenna for 13.56 MHz systems, for MIFARE®, ISO 15693 and LEGIC data carriers, with table fitting set	249936

## Technical data

Nominal voltage:	12/24 VDC (SELV - safety extra-low voltage)
Permitted input voltage:	10 to 28 VDC
Aver. input current:	400 mA
Time management:	Crystal-controlled, integrated real-time clock
Data storage:	Internal flash memory for configuration and booking data, data preservation min. 10 years
Reader type:	One RFID antenna connectable, various types of RFID antennas are available (see accessories)
Frequency of antenna field:	13.56 MHz
Cable length of antenna (coax):	Max. distance between GAT Access 6200 and RFID antenna: 40 m
Host interface:	Ethernet 10/100 MBit and RS 485
Periphery interface:	RS 232 interface for connection of external devices (e.g. barcode reader)

Signal inputs:	4 x optocouplers (configurable) - Input voltage: 0 to 30 VDC $U_{Low} < 2 \text{ VDC}$ , $U_{High} > 6 \text{ VDC}$ - Input current: 4.5 mA
Signal outputs:	4 x relays (configurable NO/NC) - Switching voltage DC: max. 30 V SELV - Switching voltage AC: max. 15 V SELV - Continuous current: max. 1.8 A - Switching power: max. 54 W, 27 VA
Connection terminals:	0.5 to 1.5 mm <sup>2</sup>
Housing material:	Shock-proof plastic
Dimensions:	247 x 193 x 62 mm (9.72 x 7.6 x 2.44 inch)
Protection type:	IP 54
Protection class:	III
Weight:	Approx. 1 kg
Environment class based on VdS 2110:	II (conditions in indoor areas)

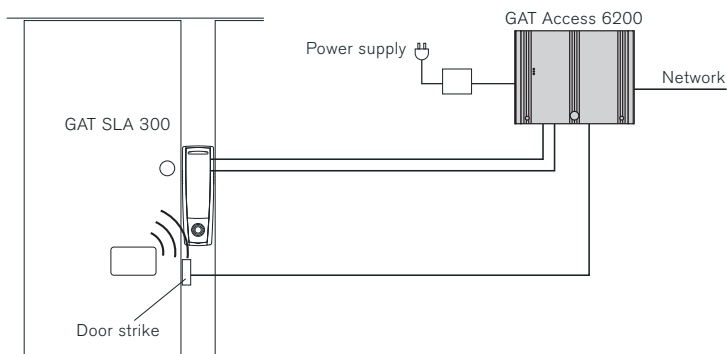
## Dimensions



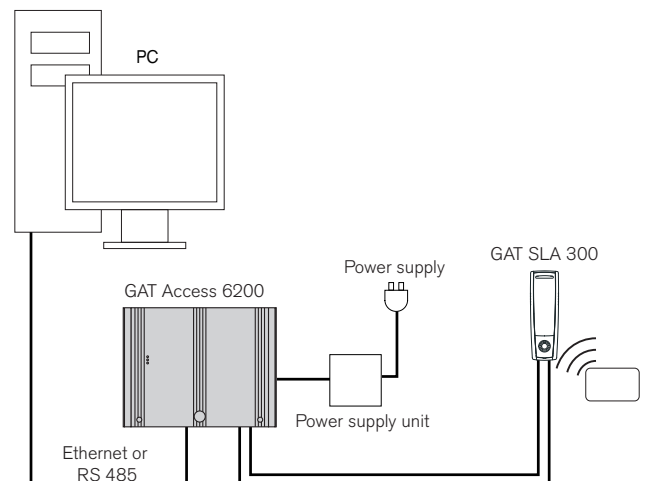
1. Cable inlets
2. Screws for securing the housing
3. Mechanical lock

## Typical application

### Access control:



### Check-in:



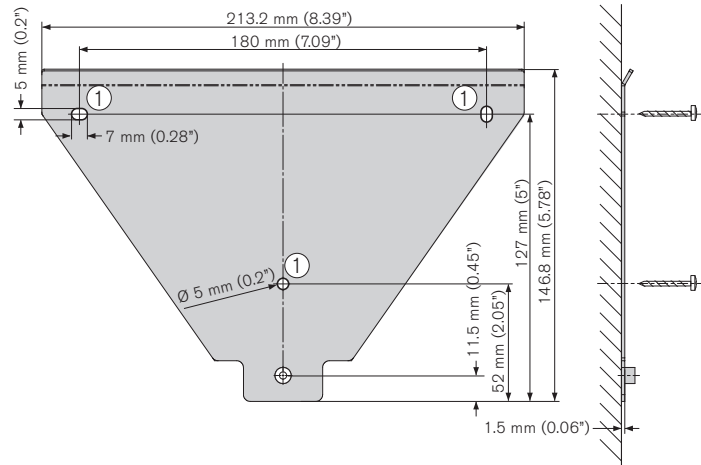
## Installation instructions

The mounting orientation of the GAT Access 6200 is arbitrary. An optional wall mounting kit is available.

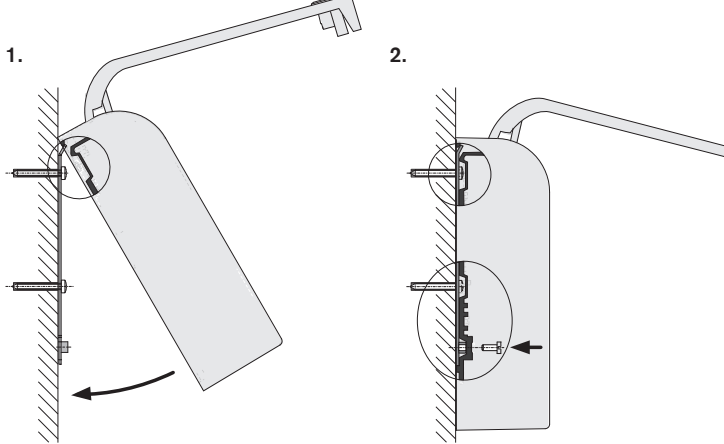
The mounting position should be selected to ensure that the external parts, e.g., antenna or turnstile, can be connected with minimal cable expenditure.

### Wall mounting (optional)

The mounting plate, which is included in the mounting set (see order information), is secured to the wall using 3 screws (1).

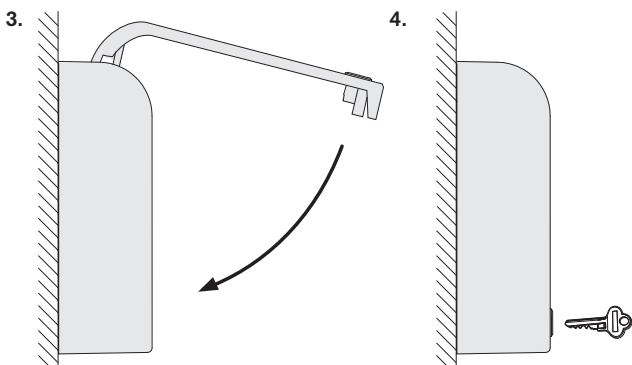


### Mounting procedure:



Rest the GAT Access 6200 onto the top edge of the mounting bracket and swing down.

Secure the GAT Access 6200 onto the mounting plate using the fixing screw.

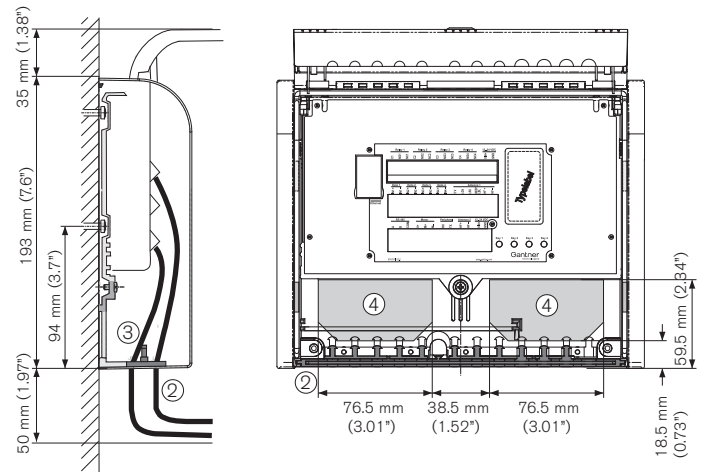


Close the cover.

Lock the GAT Access 6200 with the key. Ensure to keep the key in a safe place!

### Required mounting space

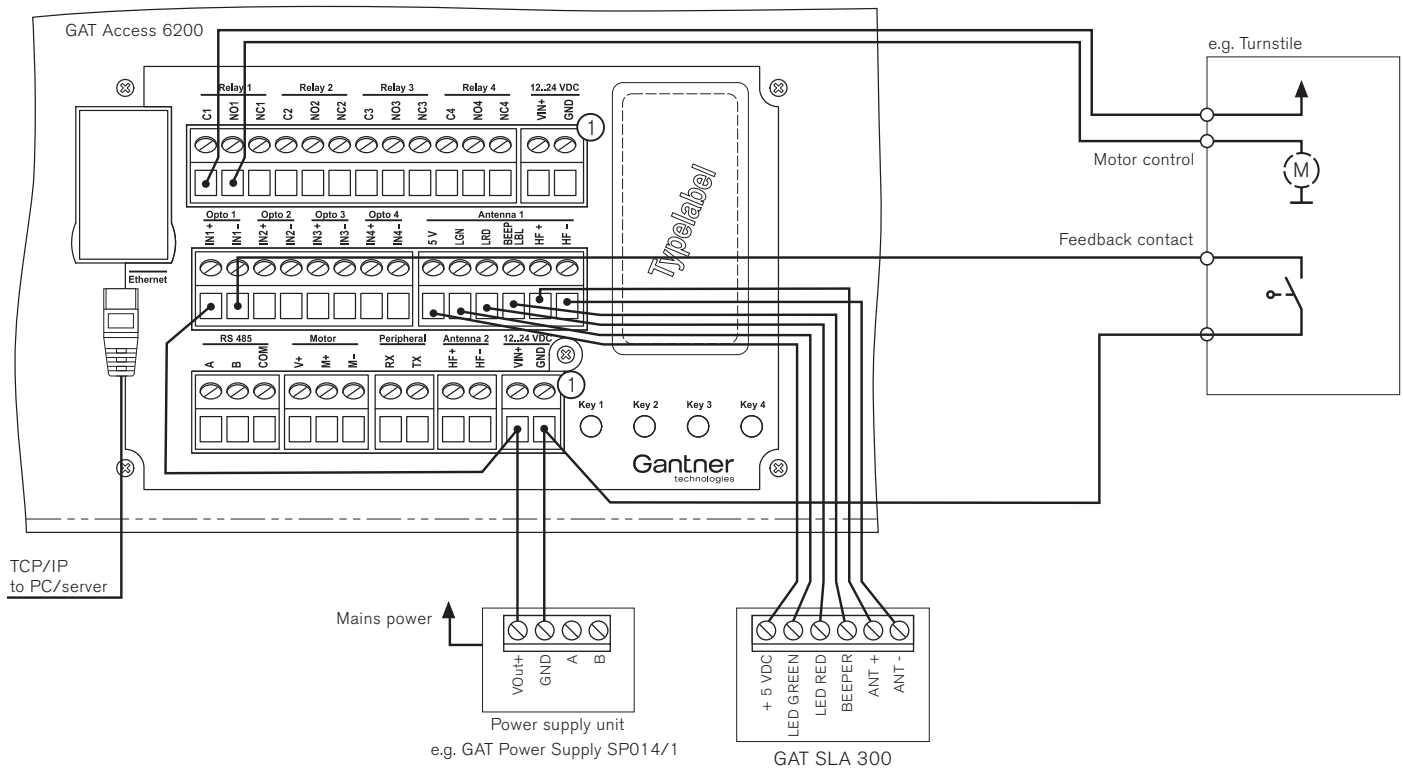
The indicated upper minimum distance must be observed to ensure the GAT Access 6200 cover can open and close (with key inserted) and also to ensure the GAT Access 6200 can be attached and detached from the mounting plate when this accessory is used to mount the device. The lower minimum distance is to allow for cable entry.



The connection cables can be surface-mounted and enter via the front face plate (2) or flush-mounted and enter via the removable cable inlets (4). For surface-mounted cabling, use the strain-relief bracket (3) to secure the GAT Access 6200 cabling.

## Electrical connections

### TCP/IP with external power supply



### Network

RS 485 bus connection or Ethernet. If the RS 485 connection is used and more than one GAT Access 6200 is in operation, the "GND" terminals of each GAT Access 6200 must be connected together.

Attention: The two network interfaces must not operate at the same time!

### Power supply

DC supply (see technical data), e.g. via a GANTNER GAT Power Supply SP014/1. There are two pairs of "VIN +" and "GND" terminals (see (1) in the connection diagram). These terminal pairs are connected with each other internally.

### Antenna connection

The RFID antenna must be connected to the "Antenna 1" terminal.

### Recommended cables


- Ethernet: min. CAT 5 (STP) for 100 MBit
- RS 485: min. CAT 5 (STP), power supply via 2 wire-pairs.
- RFID antenna:
  - Antenna signal via coax cable 50 Ω, max. 40 m
  - LED and beeper signal via CAT 5 (STP)

### Relay outputs

For the activation of devices such as turnstiles, doors, etc. Please observe the max. permitted switching voltages and currents (see technical data).



### Optocoupler inputs

Potential-free inputs for status acquisition. A supply voltage must be applied to use the input. This voltage can be taken from the terminal's supply or from an external power source. Please observe the max. permitted input voltages and currents (see technical data).



The WEEE symbol on GANTNER products and their packaging indicates that the corresponding material must not be disposed of with normal household waste. Instead, such marked waste equipment must be disposed of by a designated electronic waste recycling facility. Separating and recycling this waste equipment at the time of disposal will help to conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment. For more information on recycling an item marked with the WEEE symbol, please contact your local city office or your household waste disposal operation.

#### Safety instructions

-  - This device must be installed by qualified personnel only.
- The applicable safety and accident prevention regulations must be observed.
- Safety devices must not be removed.
- Please observe the technical data of the device specified on the data sheet.
-  - The device must be disconnected from the power supply prior to installation, assembly or dismantling.