

# GAT Access 6600

## Access Control Terminal with RFID and Barcode

### Application

The GAT Access 6600 is a stylish terminal for access control in leisure facilities such as public swimming pools, indoor and outdoor water facilities and attraction parks. The terminal is mounted directly onto turnstiles or similar access control hardware and provides convenient operation for the facility guests. Identification at the terminal is achieved either with barcode tickets (1D and 2D) or with contact-free RFID (Radio Frequency Identification) data carriers.

The clear interface guides the user through the various, well-structured levels. Different versions of the terminal are available (see order information) providing compatibility with most popular RFID technologies. The GAT Access 6600 is suitable for a variety of applications and is designed to operate in indoor and outdoor areas.



### Function description

The GAT Access 6600 reads 1D barcodes, 2D barcodes (e.g., QR-codes) and RFID data carriers and verifies the information before granting or denying access.

To read barcode tickets the terminal is equipped with a CMOS barcode reader. The large reading slot provides comfortable access for reading barcode tickets of different shapes and sizes. Remove the reading slot module and it becomes possible to read barcodes that are opened on a mobile phone display.

If RFID data carriers are also used in the facility, it is possible to identify system users using their data carriers. The user simply holds their data carrier next to the circular reading field on the front of the terminal.

Authorisation information is indicated by the large, clearly visible traffic light LEDs on top of the terminal and next to the display. Further user guidance to indicate authorisation is provided by LEDs in the RFID scan field and barcode reading slot as well as an acoustic signal.

### Highlights

- Activation of turnstiles, doors, etc., via relay outputs
- Feedback inputs
- Reading slot for barcode tickets (removable)
- 1D barcodes and 2D barcodes (e.g., QR-codes)
- Barcode tickets of almost any standard size possible
- Mobile tickets - 1D and 2D barcodes received by mobile phones
- Print@Home tickets - tickets printed at home on A4 or US letter paper
- Clear, multi-colored LED for rate and status indication
- Illuminated scan field for RFID data carriers
- Secure data transmission between reader and data carrier
- Robust plastic enclosure with safety glass
- For outdoor use
- Mounting on tubular holder

### Order information

Description	Part No.
<b>GAT Access 6600 F</b> Access control terminal with barcode and contact-free RFID reader for MIFARE® data carriers	641225
<b>GAT Access 6600 ISO</b> Access control terminal with barcode and contact-free RFID reader for ISO 15693 data carriers	716026
<b>GAT Access 6600 B</b> Access control terminal with barcode and contact-free RFID reader for LEGIC data carriers	715934

### Accessories

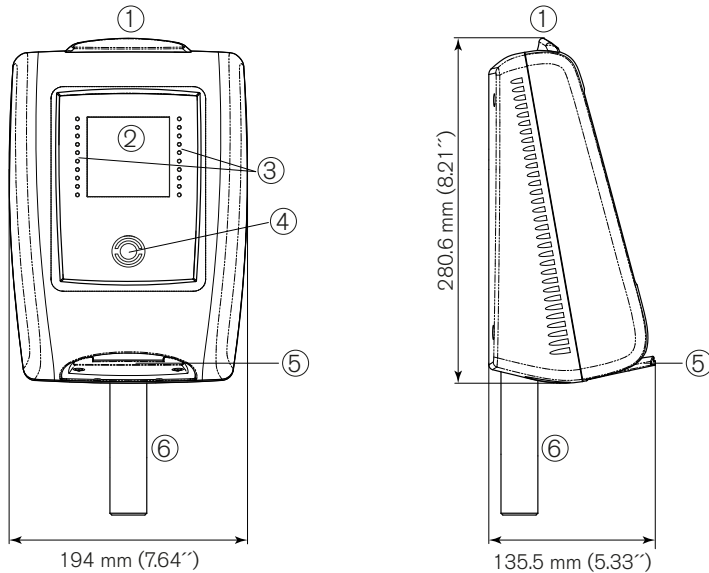
Description	Part No.
<b>GAT Holder 6010 L</b> Tubular holder for mounting the GAT Access 6600 onto a turnstile, stainless-steel, Ø 30 mm	142019
<b>GAT NET.Power Supply 100-240V</b> Power supply unit for supplying the GAT Access 6600 Output: DC 24 V / 1.7 A AC connector: IEC 60320 C7 connector DC connector: GAT NET.Lock Molex connector	369434
<b>GAT NET.Power Cord EU</b>	494181
<b>GAT NET.Power Cord UK</b>	494282
<b>GAT NET.Power Cord AUS</b>	511474
<b>GAT NET.Power Cord US</b>	636835
<b>GAT NET.Power Cord IND</b> Power cord for the GAT NET.Power Supply 100-240V with applicable power plug (see country code)	636734
<b>Sicherung 3A T 5x20mm</b> Fuse for the GAT Access 6600	719825

## Technical data

Nominal voltage:	DC 12/24 V (SELV/LPS)
Permitted input voltage:	DC 10 to 26 V (SELV/LPS)
Input current:	1.2 A
Data storage:	Internal flash memory for configuring and booking memory, data preservation min. 10 years
RFID reader types:	See order information
Control elements:	- RFID reader - Barcode reader
Display elements:	- Full graphics monochrome display with white LED background lighting, resolution 128 x 128 pixels, visible area 65 x 65 mm - Barcode reader slot - RFID reader (illuminated) - Integrated, multi-colored LED for rate and status display - Acoustic signal
Barcode reader:	CMOS reader reads 1D and 2D barcodes, also possible with smartphone displays
Host interface:	Ethernet 10/100 Mbit/s and RS-485

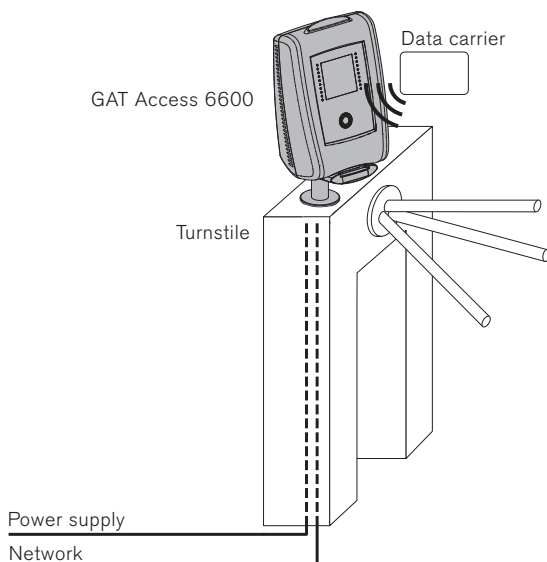
Software integration:	GAT DIRECT.Connect
Signal inputs	4 x optocouplers (configurable)
- Input voltage:	DC 0 to 30 V $U_{Low} < DC 2 V$ , $U_{High} > DC 6 V$
- Input current:	4.5 mA
Signal outputs	4 x relays (configurable NO/NC)
- Switching voltage DC:	max. DC 30 V SELV
- Switching voltage AC:	max. AC 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:	Plastic with safety glass front
Dimensions (housing):	approx. 280.6 x 194 x 135.5 mm (approx. 8.21 x 7.64 x 5.33 inch)
Weight:	approx. 2 kg (4.4 lbs)
Permitted ambient temperature:	-25 to +50 °C (-13 to 122 °F)
Storage temperature:	-25 to +70 °C (-13 to 158 °F)
Protective type:	IP X3
Protective class:	III
Compliance:	CE

## Dimensions



1. Multi-colored LED for tariff and status display
2. Monochrome display
3. Status LEDs
4. Illuminated RFID scan field
5. Inset for barcode tickets (removable for larger barcodes or smartphones)
6. Tubular holder, Ø 30 mm (not included in scope of supply)

## Typical application

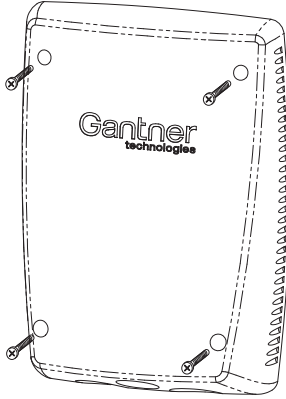


## Mounting and installation instructions

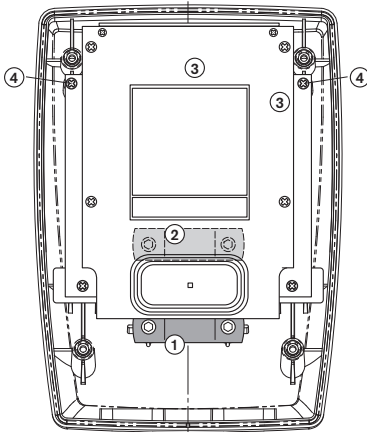
In order to mount the GAT Access 6600 onto a turnstile, a tubular mounting holder with 30 mm Ø is used (e.g., a GAT Holder 6010 L). The connection cables are fed through the tubular holder and into the housing.

### Opening the housing

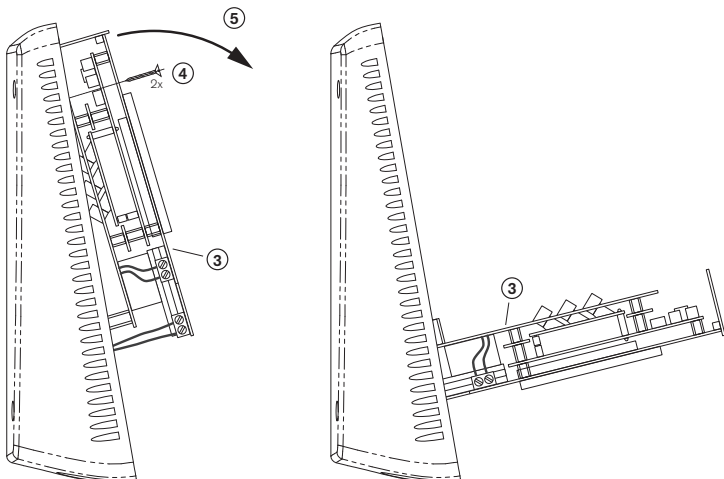
- The housing of the GAT Access 6600 must be opened to install the tubular holder. Unscrew and remove the 4 housing screws on the rear part while firmly holding the front part of the GAT Access 6600 to prevent it from falling.



- After the screws are removed, the front part can be lifted away.
- Two clamps inside the housing are used to fasten the tubular holder. The lower clamp (1) is directly accessible and can be loosened accordingly to allow the tubular holder to be inserted.



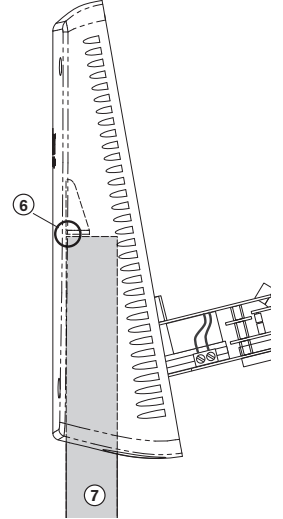
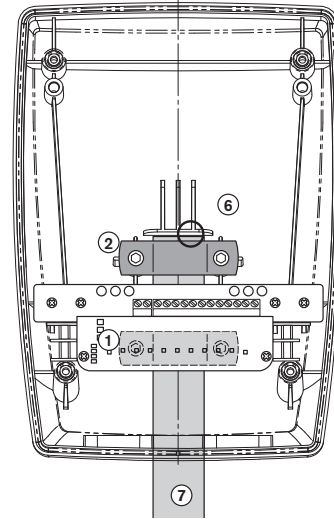
- In order to gain access to the second clamp (2), the electronics (3) must be removed. Loosen the two screws as indicated in the diagram below (4) and swing the electronics forward 90° (5).



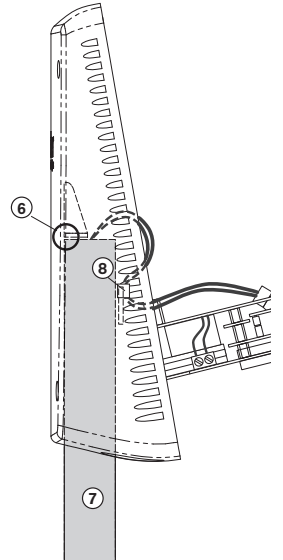
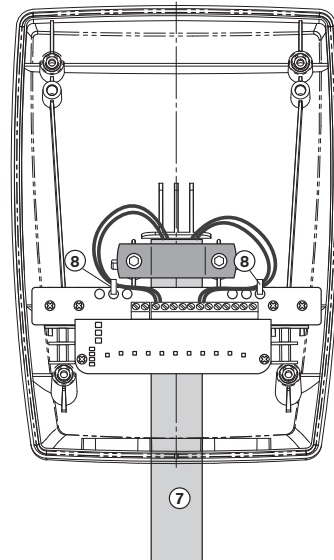
**CAUTION!** Always disconnect the GAT Access 6600 from mains power before opening the housing.

### Attaching the GAT Access 6600 and cable installation

- Insert the GAT Access 6600 onto the tubular holder (7) until the stop (6) is reached.



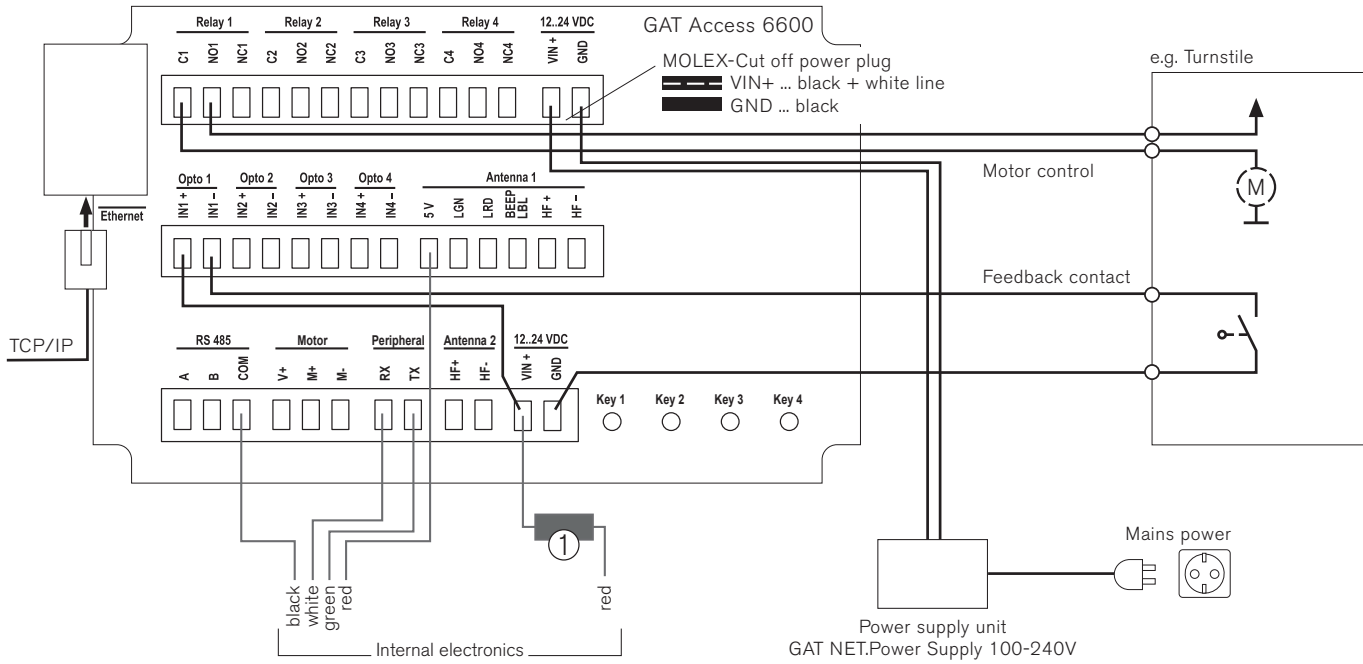
- Tighten the screws of the two clamps (1) + (2) firmly so that the GAT Access 6600 is secure and cannot be removed from the tubular holder.
- Feed the connection cables through the tubular holder. Connect the cables to the screw terminals (see next page). Use cable ties to secure the cabling to the holes provided in the retaining strip (8).



- Remount the electronics in their original position and fasten the 2 screws (4).
- NOTE!** Take care not to damage the cabling.
- Place the front part of the housing onto the rear part and secure together with the 4 screws.
- NOTE!** Take care to ensure the housing gasket is correctly inserted into the joint between the front and rear part and not damaged during this process.

## Electrical connections

### TCP/IP with external power supply



**CAUTION!** Always disconnect the GAT Access 6600 from mains power before altering the electrical connections.

#### Power supply

DC power (see technical data) supplied by a separate power supply that meets the requirements for LPS/SELV (Limited Power Source/Safety Extra Low Voltage), e.g., the GAT NET.Power Supply 100-240V.

When using the GAT NET.Power Supply 100-240V, the existing plug must be cut off in order to connect the "VIN+" and "GND" wires to the screw terminals as shown in the diagram above. The two "VIN +" terminals are directly connected internally. The voltage input is protected against reverse polarity.

#### Network

- Network connection via Ethernet (default) or RS-485 bus connection.
- **NOTE!** Both interfaces must not be operated at the same time.
- When using RS-485 bus connection, only connect the A and B signal lines. The COM terminal is not used.

#### Recommended cabling

- Ethernet: min. CAT 5 (STP) for 100 MBit
- RS-485: min. CAT 5 (STP). Nominal voltage via 2 wire-pairs.

#### Protective element

The cable (1 in diagram above) contains a fuse, which can be replaced if necessary. Ensure that voltage is switched off, screw open the fuse holder and insert a new fuse (Type 3A T 5x20mm, 250V, e.g., GANTNER Part No. 719825).

#### Relay outputs

4 relay outputs are provided for the activation of devices such as turnstiles, etc. Each relay is configurable for NC (normally closed) and NO (normally open) operation. Observe the maximum permitted input voltage and current (see technical data).

#### Optocoupler inputs

4 potential-free inputs are provided for status detection. An input voltage must be applied to activate the input, which can be supplied by the terminal's power source or from an external power source. Observe the maximum permitted input voltage and current (see technical data).

#### Safety Instructions



- The installation and maintenance of this device must be performed by trained, qualified personnel.
- All applicable safety and accident prevention regulations must be observed.
- Safety devices must not be removed.
- Please observe the technical data of the device specified in this datasheet.



- The device must be disconnected from the power supply prior to installation, assembly or dismantling.