GAT Access 6600
Access Control Terminal with RFID and Barcode

Gantner technologies

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 data carriers (Radio Frequency Identification).

The clear interface guides the user through the various, well-structured levels. Different versions of the terminal are available (see order information) to provide compatibility with different 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
- Clearly visible LED light for indication of rates and status information (various colours)
- Illuminated, circular 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

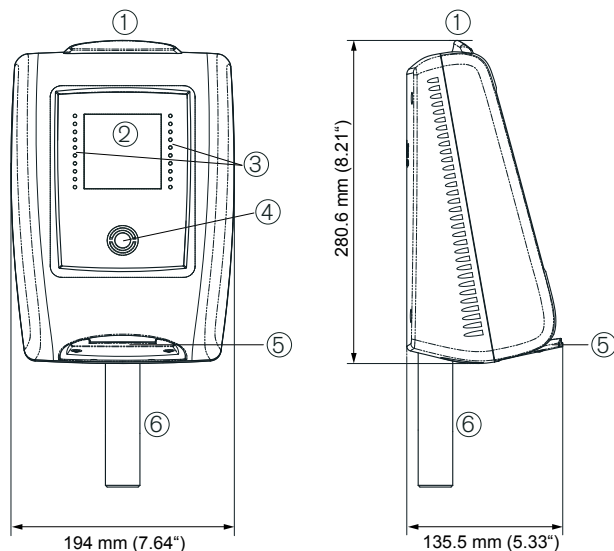| Description	Part No.
GAT Access 6600 F	641225
Access control terminal with barcode and contact-free RFID reader for MIFARE™ data carriers	
GAT Access 6600 ISO	716026
Access control terminal with barcode and contact-free RFID reader for ISO 15693 data carriers	
GAT Access 6600 B	715934
Access control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

Accessories

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

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Technical data

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Nominal voltage:	12/24 VDC SELV LPS
Permitted input voltage:	10 to 26 VDC 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 LED light for rate and status display, different light-colours - 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: 0 to 30 VDC $U_{Low} < 2$ VDC, $U_{High} > 6$ 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 mm²
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)
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
Weight:	approx. 2 kg (4.4 lbs)

Dimensions

280.6 mm (8.21")
194 mm (7.64")
135.5 mm (5.33")

1. LED Light for tariff and status display (different colours)
2. Monochrome display
3. Status LEDs
4. Illuminated, circular 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

Data carrier
GAT Access 6600
Turnstile
Power supply
Network

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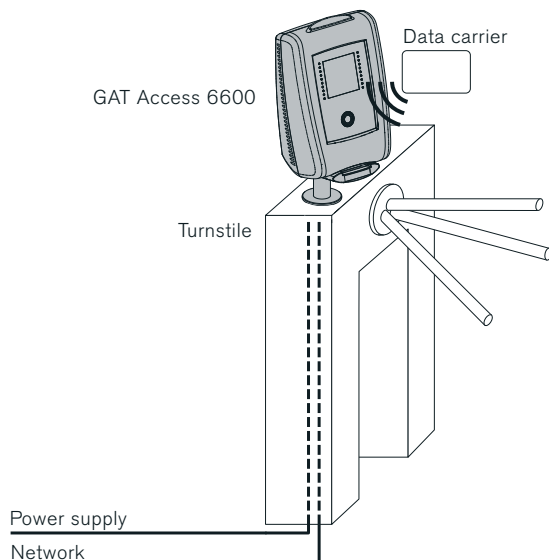
Mounting and installation instructions

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 connecting 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.
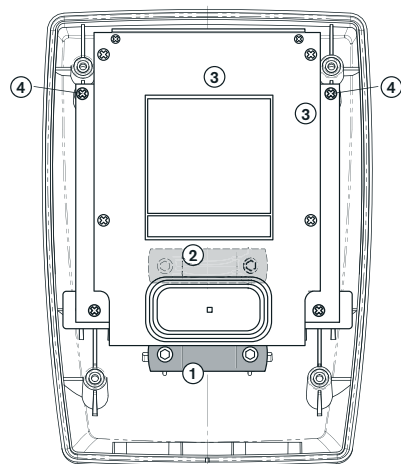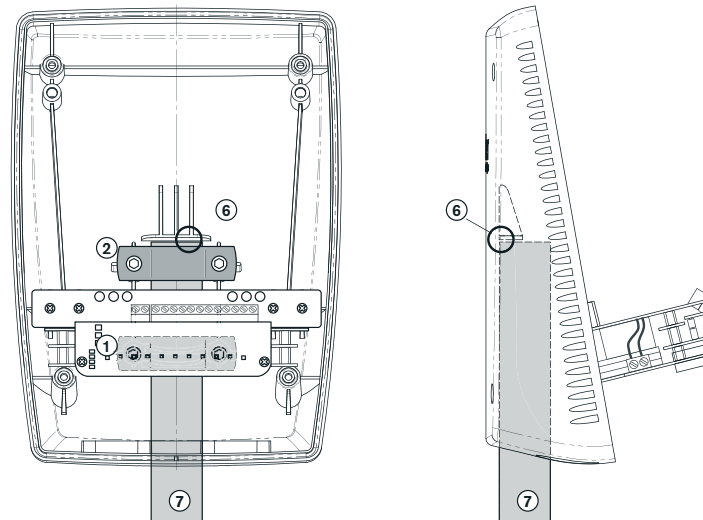

In order to gain access to the second clamp (2), the electronics (3) must be removed. Loosen the two screws as indicated in the figure below (4) and swing the electronics 90 ° forward (5).
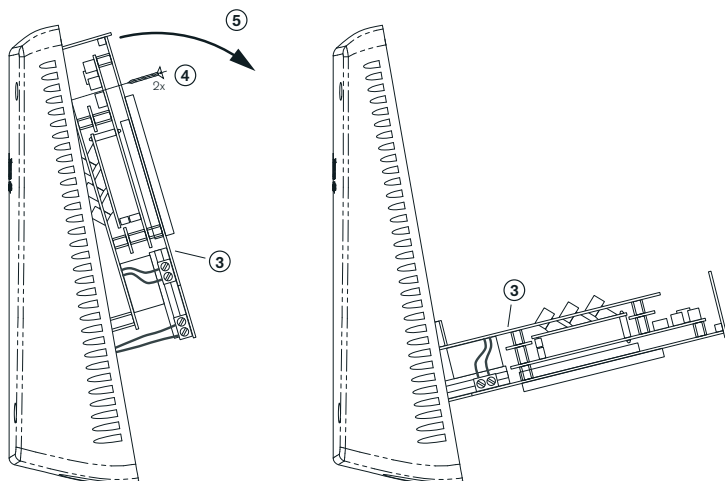

Attachment of the tubular holder and cable installation

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 connecting 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).
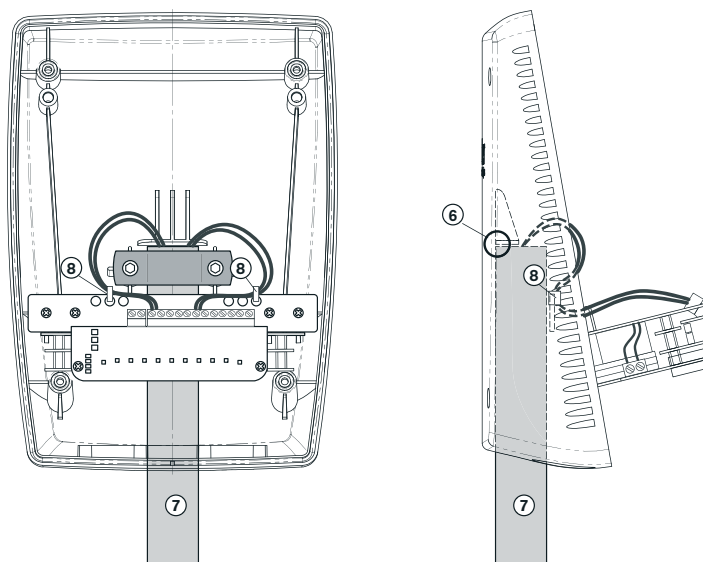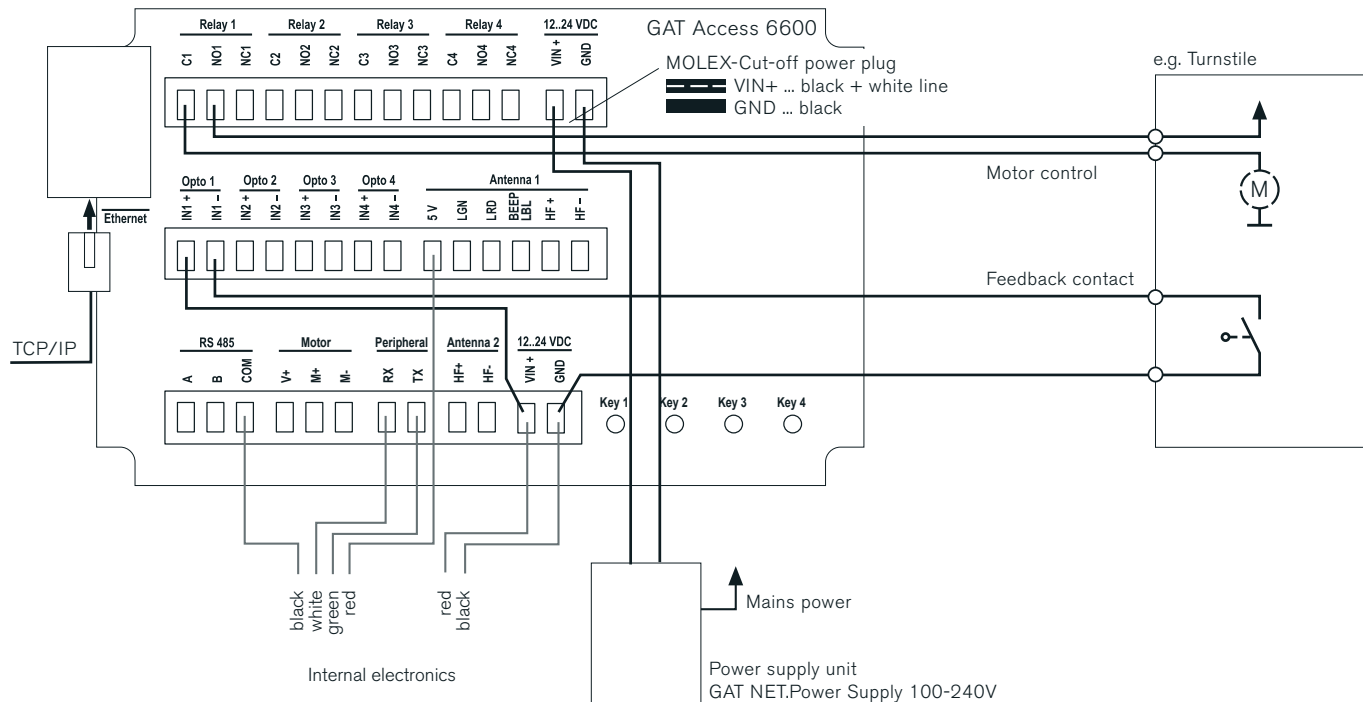

Remount the electronics in their original position and fasten the 2 screws (4). **Take care not to damage the connecting cable.**

Close the housing by placing the front part of the housing onto the rear part and secure them with the 4 screws. **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.**

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Electrical connections

TCP/IP with external power supply

Network

Ethernet (default) or RS 485 bus connection.

Attention: Both interfaces must not be operated at the same time!
Only connect the A and B signal lines when using RS 485 bus connection.
Do not use the COM terminal.

Power supply

DC power supply that complies with SELV (safety extra low voltage) and LPS (limited power source). See technical data for details. GANTNER offers the GAT NET.Power Supply 100-240V to supply the GAT Access 6600. When using the GAT NET.Power Supply 100-240V the provided power plug must be cut off and the cabling terminated onto the "VIN +" and "GND" screw terminals (see details in diagram above).
The two "VIN +" terminals are internally directly connected. The voltage input is protected against reverse polarity.

Recommended cables

Ethernet: min. CAT 5 (STP) for 100 MBit
RS 485: min. CAT 5 (STP), power supply via 2 wire pairs

Relay outputs

For activation of devices such as turnstiles, etc., each relay provides NC (normally closed) and NO (normally open) operation. The permitted switching power levels (see technical data) must never be exceeded.

Optocoupler inputs

Potential free inputs for status detection. An input voltage must be applied to activate the input. This voltage can be supplied by the terminal's power source or from an external power source. Please observe the maximum permitted input voltage and current (see technical data).

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.

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