

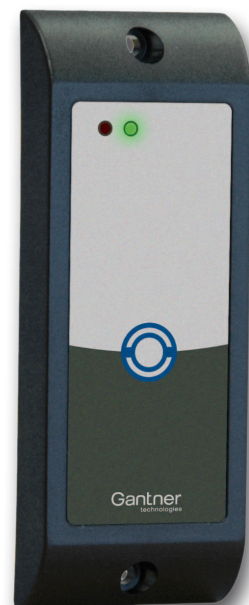
GAT Reader 405 AP

Proxy reader for access control

Application

The Proxy reader GAT Reader 405 AP is used for the identification of persons in access control systems. The identification is contactless via RFID (Radio Frequency Identification) with 125 kHz (Proxy). Evaluation of the identifications and authorisation of credentials is handled by the connected access control terminal.

Thanks to the robust and sealed design the reader can be used in outdoor areas as well.



Functional description

Persons identify themselves at the GAT Reader 405 AP with their personal RFID data carriers by holding the data carriers to the center of the reading field. The read information is transferred via a serial interface to a verification unit located in the secured area, where the credentials are then verified and the unlocking command is sent. For the control unit a GAT Terminal 3100 ECO or a GAT Terminal 3100 PLUS can be used. Two LEDs and an acoustic signal generator (beeper) are used to signal the users.

Highlights

- Contactless identification via Proxy data carriers
- Control unit in the secured area
- User guidance with 2 LEDs and an acoustic signal generator
- Direction determination (entry/exit)
- Slim shape
- Robust design
- Sealed electronics
- Suitable for mounting in outside area

Order information

Description	PartNo.
GAT Reader 405 AP	317023
Proxy reader, slim line housing for surface mounting, clock/data interface, 2 m connection cable	

Zubehör

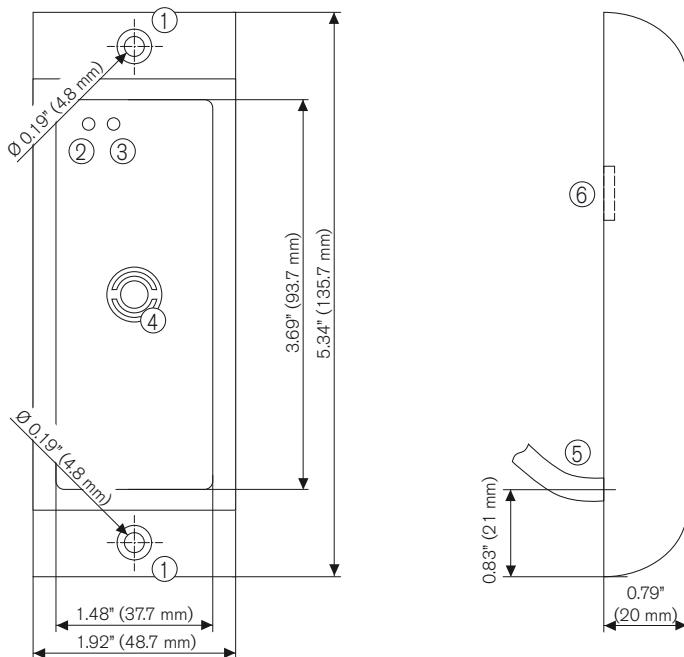
Description	PartNo.
GAT Terminal 3100 ECO	116727
Access terminal for one door, 2 external readers per door, 2 inputs and outputs per door, up to 2,000 persons	
GAT Terminal 3100 PLUS	116626
Access terminal for one door, 4 external readers per door, 4 inputs and outputs per door, up to 25,000 persons	
GAT SP 010	427682
Power supply unit, output: U_{DC} 12 V, 2.1 A, 25 W, primary: U_{AC} 90 - 260 V, 50-60 Hz	
GAT Power Supply 12V 2.1A 25W	385483
Power supply unit, output: U_{DC} 12 V, 2.1 A, 25 W, primary: U_{AC} 85 - 264 V, short circuit proof, inserted noise filter, small residual ripple	

Technical data

Nominal voltage U_{DC} :	12 V
Permitted input voltage range U_{DC} :	+9 V to +14 V
Current consumption:	max. 100 mA typ. 50 mA
Frequency of reading field:	125 kHz
Reading range:	Approx. 10 cm, depending on data carrier
Interface:	Clock/data
Connection cable:	2 cm
Max. connection cable length:	10 m

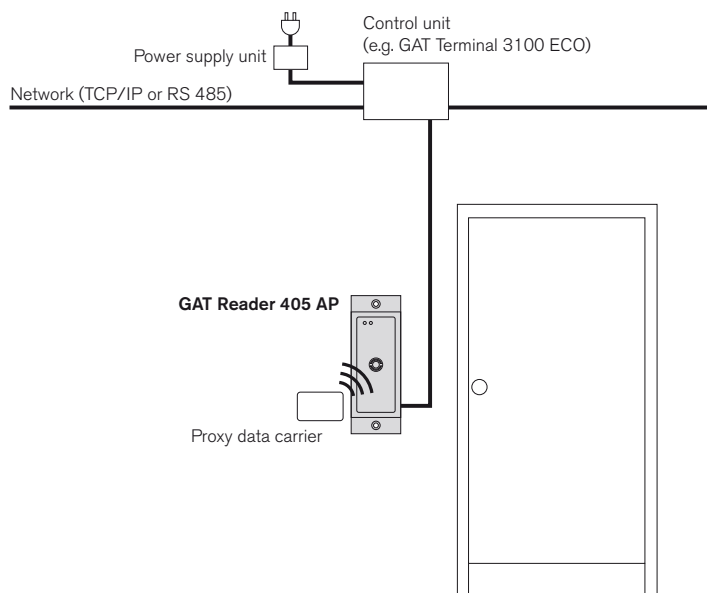
Dimensions (L x B x T):	5.34 x 1.92 x 0.79 mm (135.7 x 48.7 x 20 mm)
Permitted ambient temperature:	-22°F to +149°F (-30°C to +65°C)
Protection type:	IP 64
Protection class:	III
Environment class based on VDS 2110:	III (conditions in outdoor areas, protected against weather influences)

Dimensions



1. Mounting holes
2. LED "red"
3. LED "green"
4. Center of reading field
5. Connection cable
6. Acoustic signal generator (beeper)

Typical application



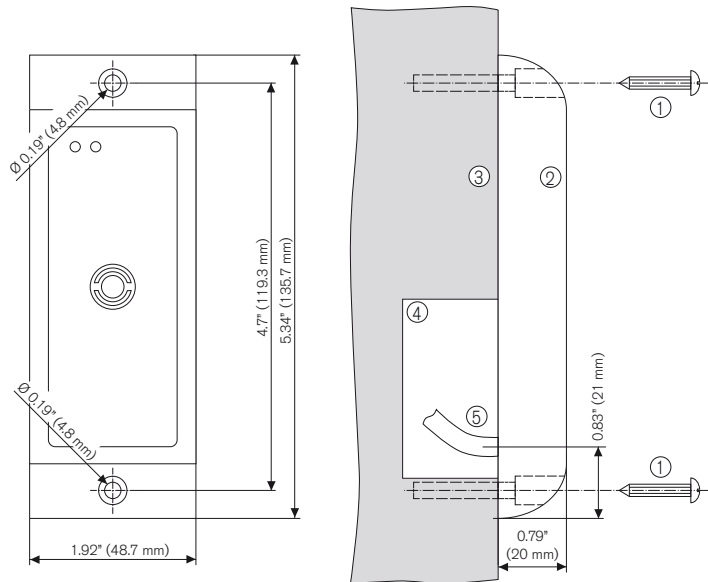
Mounting and installation instructions

The GAT Reader 405 AP is designed for mounting on a flat surface (e.g. a wall) with concealed cable guide.



Attention: The GAT Reader 405 AP must not be mounted onto metallic surfaces or directly next to metallic parts of devices or buildings, because this would interfere the reading field of the GAT Reader 405 AP and correct reading of the data carriers may no longer be possible!

Measurements of the mounting holes

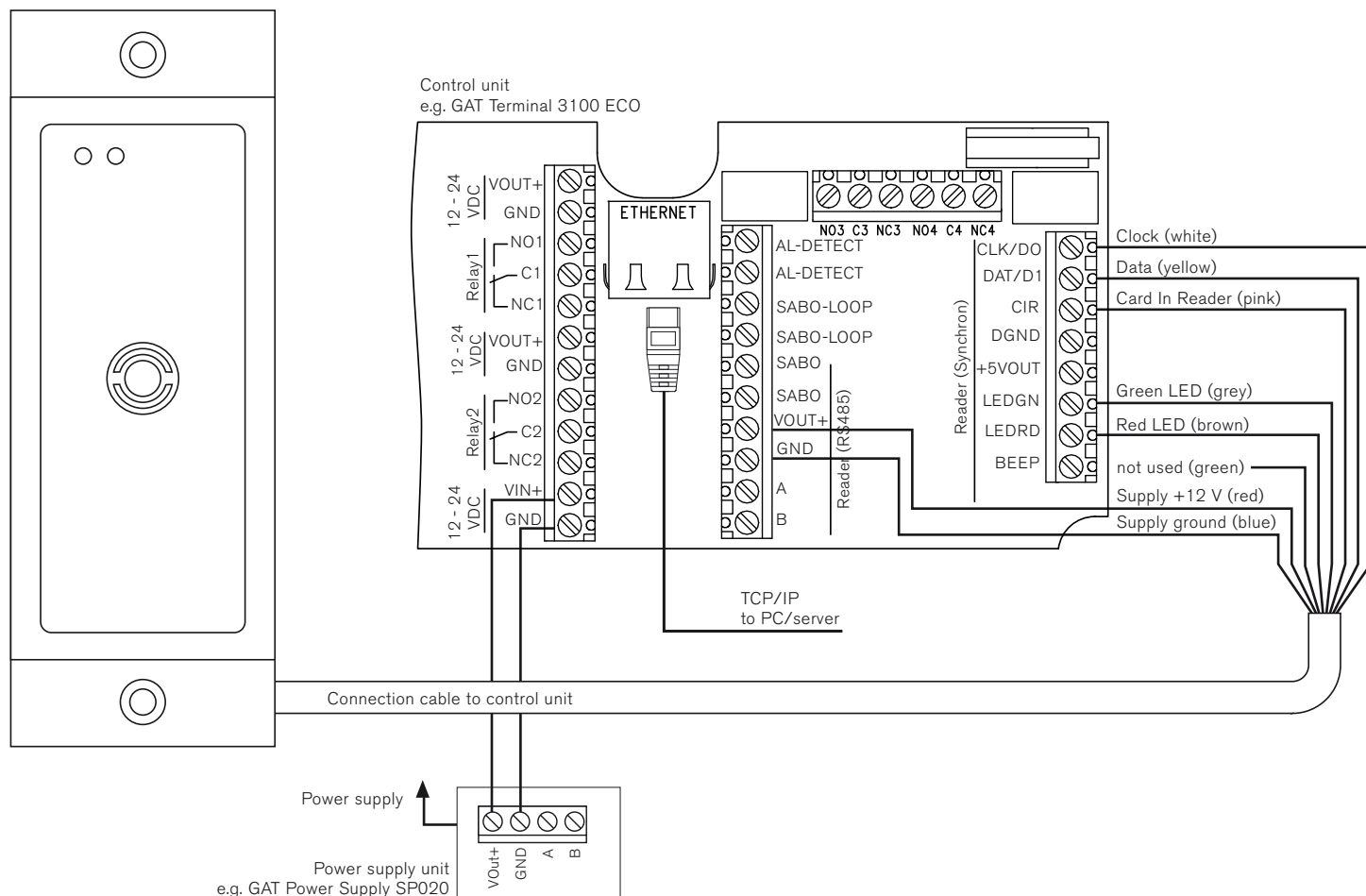


The GAT Reader 405 AP (2) is mounted with 2 screws (1). The screws have to be selected according to the type of surface on which the GAT Reader 405 AP is mounted. A corresponding outlet (4) must be made in the wall or surface in order to connect the cables (5).

Electrical connections

Connection to a GAT Terminal 3100 ECO/PLUS

GAT Reader 405 AP



Power supply



A 12 V DC power supply must be used for both, the GAT Reader 405 AP as well as the terminal (see technical data)!
The "+5 VOUT" output of the terminal strip "Reader (Synchron)" must not be used!

Cable connection

The connection cable is pre-connected inside the seal of the GAT Reader 405 AP. At the control unit (e.g. GAT Terminal 3100 ECO/PLUS) the cable is connected at the screw terminal labelled „Reader (Synchron)". For the correct line colours see the connection diagram.

Cable and cable length

A max. cable length of 10 m must not be exceeded.

Detection of entry/exit

At one control unit up to two GAT Reader 405 AP can be connected. But it is not possible to distinguish between entry and exit direction. Therefore both readers are connected in parallel at the screw terminal.

Connection to control units

The GAT Reader 405 AP can be connected to the following control units:

- GAT Terminal 1002
- GAT Terminal 2500
- GAT Terminal 3100 ECO
- GAT Terminal 3100 PLUS

Safety Instructions



- The installation and maintenance of this unit must be carried out by professionals.
- The applicable safety and accident prevention regulations must be observed.
- Protective devices must not be removed.
- Take into account the technical data of the unit indicated in the technical data sheet.



- The unit must be disconnected before any work is conducted in the unit.
- Mounting and dismounting only in disconnected condition.