

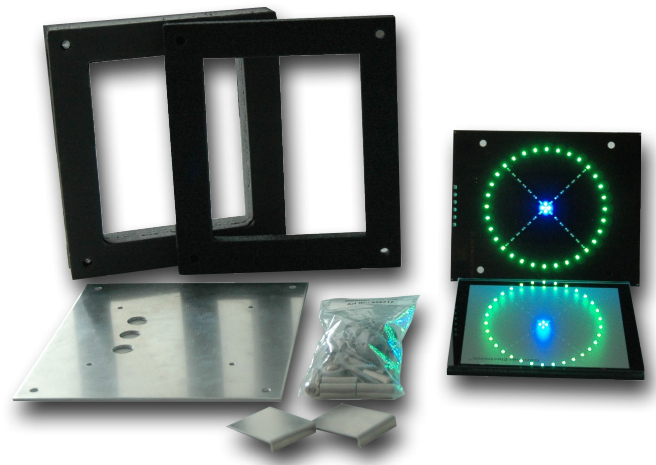
GAT SA 750 EB

Read/Write Antenna for RFID Data Carriers

Application

The RFID Antenna GAT SA 750 EB can be connected to various terminals and read/write stations, in order to read and write RFID data carriers (13.56 MHz) without contact.

With the installation kit, the antenna is ideal to integrate into surfaces such as tabletops, sales counters or similar.



Functional description

With 32 green LEDs (arranged as a circle) and 28 red LEDs (arranged as a cross) signalise customer states like e.g. authorised or unauthorised access attempts, door open or closed. A blue LED in the centre of the reading field signalises to the customer where to place the data carrier. The symbol and the various possibilities of controlling the LEDs guarantee an optimal user guidance.

The GAT SA 750 EB consists of the antenna, a glass plate, a distance frame, a mounting plate and mounting material and is therefore optimally suited for installation into tabletops, sales counters etc..

Highlights

- Ideal antenna unit for the non-contact reading and writing from RFID data carriers
- Coded data transmission between antenna and RFID data carriers.
- User guidance via 32 green and 28 red LEDs as well as blue LEDs in the reading field
- Integrated acoustic signal generator
- Suitable for installation into tabletops, sales counters, turnstile etc..

Order information

Description	PartNo.
GAT SA 750 EB 13.56 MHz antenna for LEGIC®, ISO 15693 and MIFARE data carriers, with LED indicators (red and green symbols and blue for the reading field) and beeper, with installation kit	249936

Accessoires

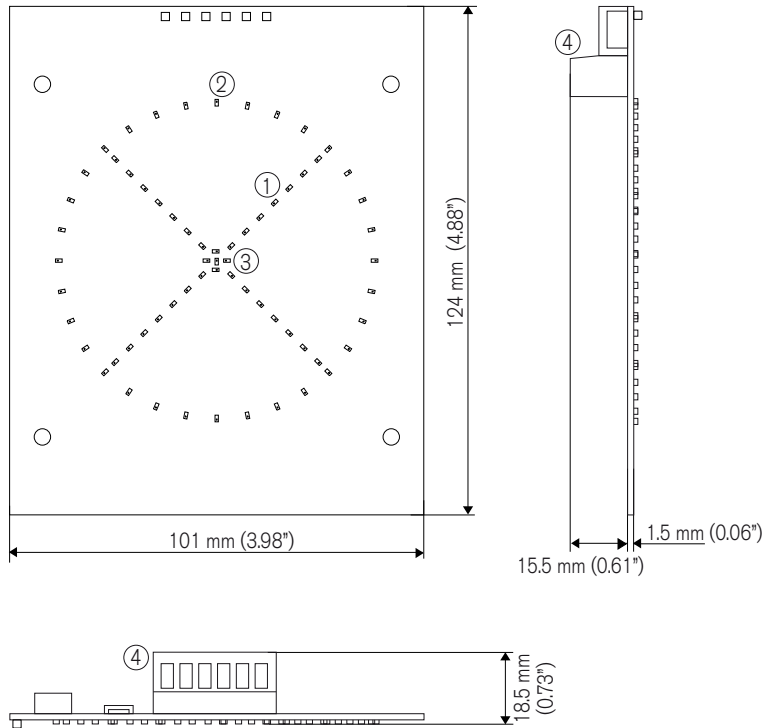
Description	PartNo.
Manual GAT SA 750 Manual for the GAT SA 750, English	---
GAT Glass Reader 750 Replacement glass for the GAT SA 750 EB	855927

Technical data

Nominal voltage U_{bc} :	5 V
Power consumption:	max. 100 mA
Frequency of reading field:	13.56 MHz
Reading range:	Approx. 6 cm = 0.24" (depending on the data carrier)
Signal inputs:	- LED green - LED red - Beeper

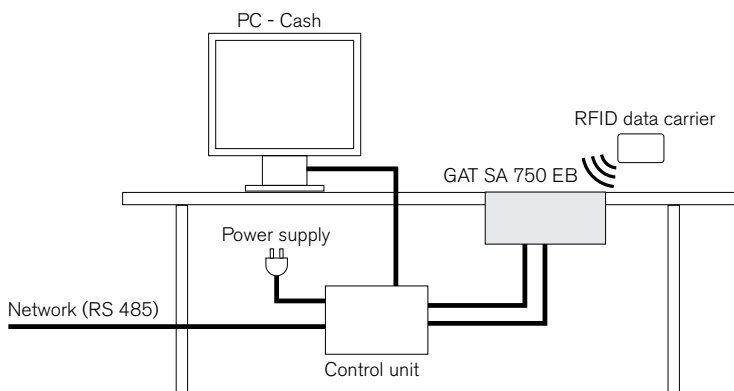
Dimensions print:	101 x 124 x 18.5 mm (3.98" x 4.88" x 0.73")
Dimensions with mounting frame:	150 x 170 x 40 mm (5.91" x 6.69" x 1.57")
Permitted ambient temperature:	-20°C to + 70°C
Protection type:	IP 44 (in built-in state)
Protection class:	III
Environment class based on VDS 2110:	II (conditions in indoor areas)

Dimensions



1. LEDs "green"
2. LEDs "red"
3. LEDs „blue" (centre of reading field)
4. Connection terminal

Typical application



Installation of the glass plate

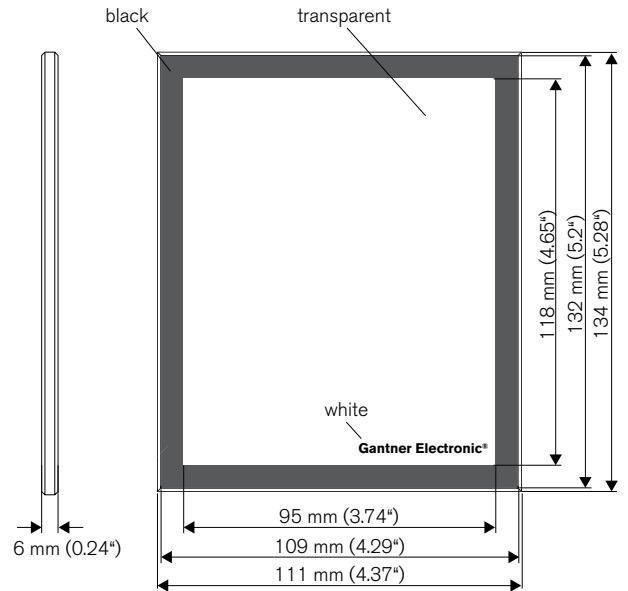
1. Clean glass plate and inner walls of the tabletop. The adhesion areas of the silicone gap must be clean, dry and free of dust and other contamination.
2. Fit the glass plate into the cut-out.
Pay attention to the orientation of the glass plate (semi-matt, printed surface must be facedown, in the direction of the GAT SA 750 electronics, and the glossy side has to be faceup/on the outside).
3. Glue the glass plate in a clean manner to the tabletop in a way that ensuring a 5 mm gap is left open around the glass plate (adhesive tape or masking tape is well suited to protect the surfaces around the gap).
4. Apply silicone with a constant feed rate from a silicone cartridge around the entire glass plate (thickness: 4-5 mm).
5. Wet a finger with detergent solution and smoothly level the applied bulge of silicone. This must be done immediately after applying the silicone.
6. Then immediately remove the adhesive tape by carefully pulling it off towards the filled gap.

Note:

After installation of the glass plate, it must be sealed (e.g. with silicone), in order to prevent the permeation of humidity. Note the hardening period of the silicone!



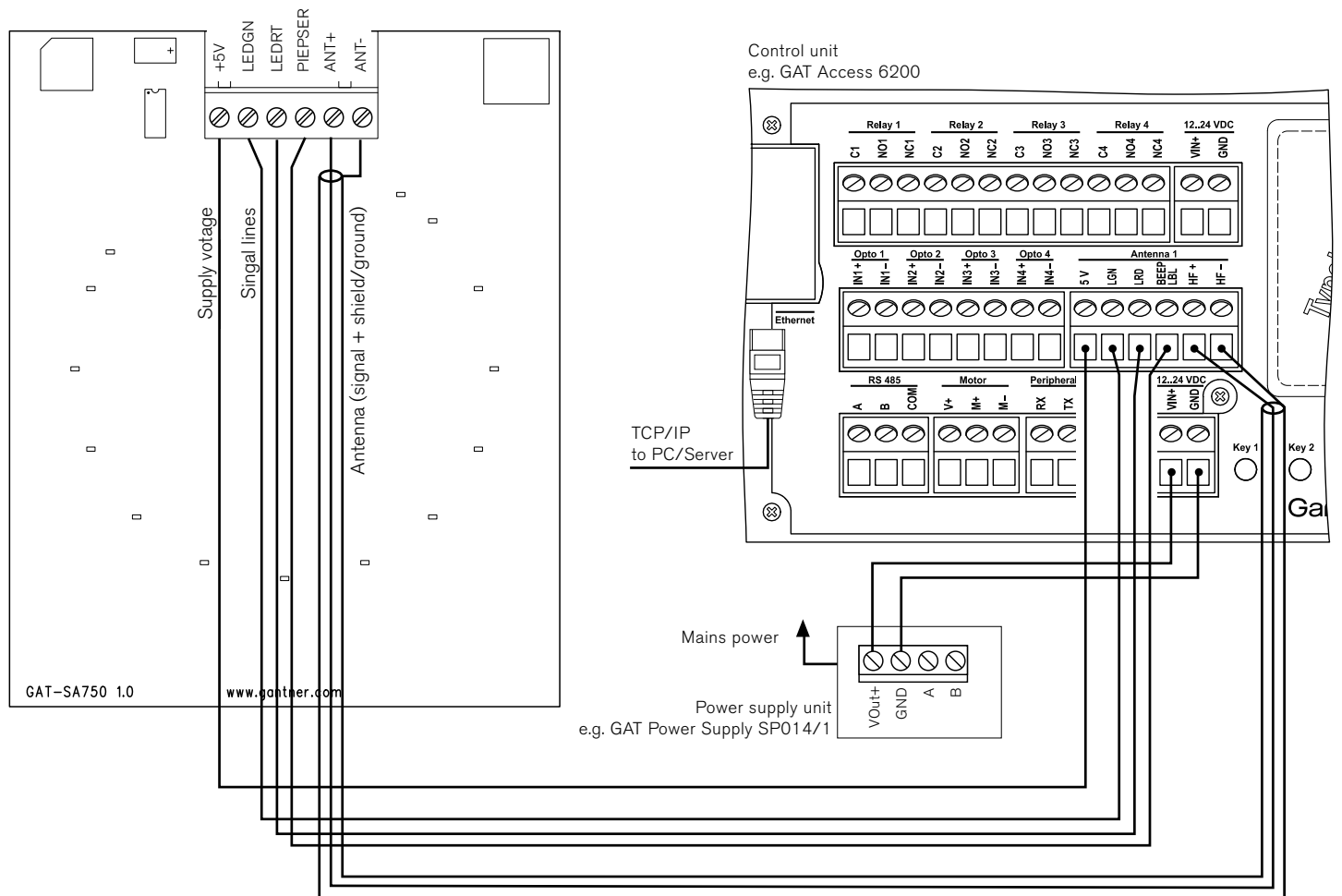
It is important to pay attention to the duration of drying time of the silicone! Surface skin formation will occur within a few minutes and up to half an hour. The speed of hardening ranges from 1 to 5 mm per day, depending on the type of silicone, the cross section of the gap, the humidity and temperature.



One side of the glass is semi-matt (with printing) and the other side is glossy. After the installation the semi-matt, printed side faces downwards in the direction of the GAT SA 750 electronics.

Electrical connection

The GAT Reader 750 EB may be connected to various control units. This example shows the connection to an access control terminal GAT Access 6200.



Power supply

DC power supply 5 V (see technical data) from the terminal. Ground GND via antenna shield ANT-.

Cable connection



The connection cables are connected to the screw terminals of the GAT SA 750 EB with plug-in screw-type terminals.

Recommended cables

Control lines and power supply: shielded data lines, LiYCY (e.g. CAT 5)

Antenna connection: 50 Ω coaxial cable, RG 174 A/U

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.