

GAT SR 861

Long-range reader for access control

FACTS AT A GLANCE

- Effortless, non-contact identification via long-range data carriers
- Data carriers installed inside the vehicle
- Maintenance-free data carriers (no battery required)
- Identification range up to 3 meters
- Easily integrates into the access control systems via the GAT DC 7200 access terminal
- Installation of the access terminal and long-range reader in a secure inner area
- Three LEDs to signal access and status information
- Wall bracket included for installing the reader



The GAT SR 861 long-range system is an innovative and flexible solution for long-range identification in access control systems. The reader enables identification of up to three metres, making it the ideal component for gate control in systems such as parking garages and car parks.

Vehicles are identified using a GAT Longrange Tag 860 passive data carrier, which is available in two different forms (ISO Card and Windshield). The analysis of the identification data and the subsequent control of the access point is carried out by the connected GAT DC 7200 access terminal.

A GAT SR 861 reader is installed at each entry/exit point to be controlled. This only requires a power supply and data line via a common cable, which enables simple installation and connection to a GAT DC 7200. The reading field must be aligned once. After calibration, the reader is maintenance-free.

If a vehicle or person with a data carrier is within the reading field, the data carrier ID is detected by the GAT SR 861 reader. Data carrier identification is possible over large distances of up to 3 meters. Available data carriers include a windshield data carrier, which is attached directly to the inside of the windshield, and an ISO card data carrier, which fits into a supplied bracket. This bracket is suitable for mounting in vehicles.

GAT SR 861



GAT Longrange Tag 860 Windshield



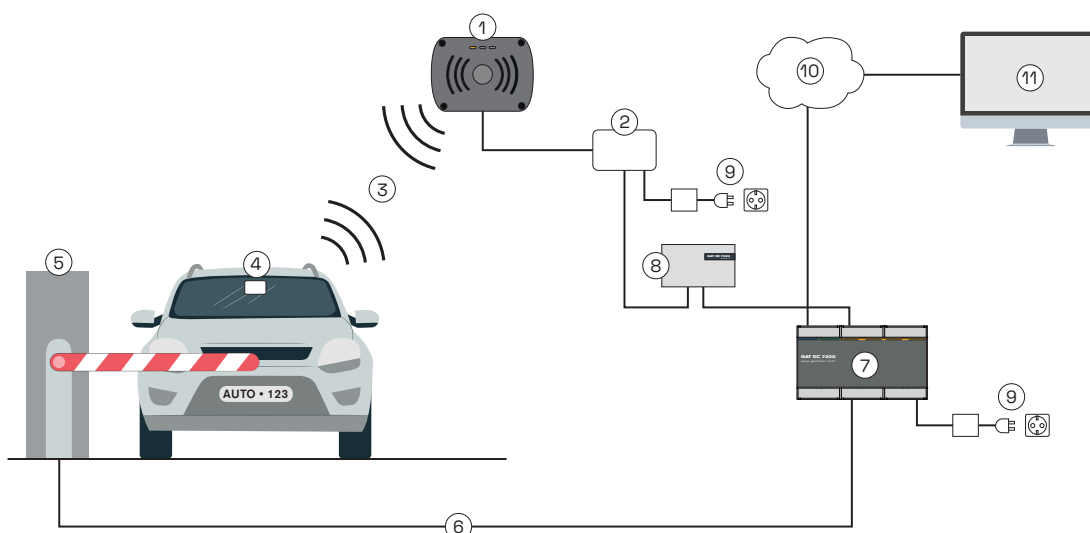
GAT Longrange Tag 860 ISO Card



Order information

Description	Part No.
GAT SR 861 Long-range reader for detecting 868 MHz long-range data carriers, connects to the access control system via an access terminal (GAT DC 7200), includes interface converter, power supply and wall bracket	809938
GAT Longrange Tag 860 ISO Card Passive data carrier with fixed coding, includes windshield mounting bracket, 868 MHz reading frequency, supplied in packaging units of 10 pieces	534529
GAT Longrange Tag 860 Windshield Passive data carrier with fixed coding, includes adhesive backing for windshield attachment, 868 MHz reading frequency, supplied in packaging units of 10 pieces	534731
GAT SR 860 Setup Tools Accessories for commissioning the GAT SR 86x series readers, includes test transponder	534125
GAT DC 7200 Door controller for up to 4 doors, configuration via web interface, for use with external RFID reader, DIN rail hat housing	532220
GAT SR 7000 Wiegand Interface for connecting Wiegand and Omron devices to the GAT DC 7xxx door controllers, 1 relay output and 2 digital inputs for door control and monitoring	693531

Typical application



- 1 GAT SR 861
- 2 Interface converter
- 3 Longrange field
- 4 Longrange data carrier
- 5 Access gate
- 6 Gate control
- 7 GAT DC 7200
- 8 GAT SR 7000 Wiegand
- 9 Power supply
- 10 ..Network
- 11 ... Management software

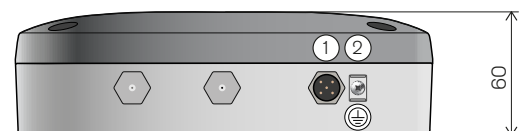
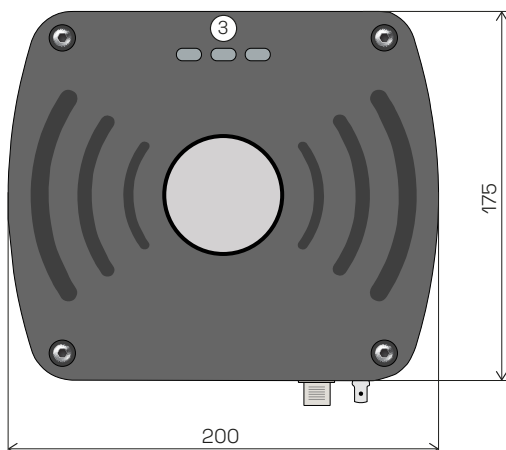


The signal range is reduced accordingly if a person is carrying the data carrier on their body. When positioned in the car, the data carrier must be attached to the windshield in the designated place.

Technical data

GAT SR 861		
Nominal voltage:	- GAT SR 861: U_{DC} 12 - 24 V - Incl. power supply: U_{AC} 88 - 264 V	
Power supply:	Via included power supply	
Power consumption:	- GAT SR 861: max. 1 A - Incl. power supply AC: max. 1.2 A	
Transmitting power:	- max. 1.0 W E.R.P. (ETSI EN 302 208) - max. 1.6 W E.I.R.P. (FCC Part 15), configurable	
Signal frequency:	865 - 868 MHz (EU)	
Signal range:	Up to 3 m	
Transponder technology:	ISO18000-6 C (EPC Class1 Gen2)	
Interface:	RS-485 + power (converter supplied for connecting to the GAT DC 7200)	
Signalization:	3 LEDs for status display	
Weight:	Approx. 1.2 kg	
Perm. ambient temperature:	-20 to +50 °C	
Relative humidity:	5 - 95 % (non-condensing)	
Protection type:	IP67	
Environment class (VdS 2110):	IV (outdoor conditions, full exposure to weather)	
Certification:	EN 50364, EN 301489, EN 302208 (DRM)	
Longrange Data Carrier	GAT Longrange Tag 860 Windshield	GAT Longrange Tag 860 ISO Card
Befestigung:	Directly attached to windshield via adhesive	Holder included for windshield mounting
Perm. ambient temperature:	-20 to 70 °C	-20 to 50 °C
Transponder technology:	EPC Class1 Gen2	ISO 18000-6C (EPC Class1 Gen2)
Dimensions:	85 x 54 x 0.84 mm	
Frequency:	868 MHz (EU)	
Signal range:	Up to 3 m (depending on the reading field and ambient conditions)	

Features and dimensions



- 1 ... M12 connector (power and RS-485)
- 2 .. Ground terminal
- 3 .. LED status display

Measurement in mm