ID MAX.U2000
Vehicle Access Control System

FEATURES

- Standalone system including RFID-Reader, Antenna, Software and Accessories
- Read ranges up to 5 m / 16 ft with passive, maintenance free UHF transponders
- Designed to open sliding gates, sectional gates, high-speed gates and barrier systems
- Database capacity for up to 6.000 vehicles

OBID® – RFID by FEIG ELECTRONIC

ID MAX.U2000 Vehicle Access Control System

SYSTEM DESCRIPTION

The ID MAX.U2000 is a standalone vehicle access control system based on RFID technology.
Possible application areas include car parks, gated communities, factories, warehouses, offices, schools, colleges and any other security sensitive areas.

The vehicle identification is done with passive UHF transponders. There are no batteries and therefore no maintenance. The transponders are mounted inside the vehicle and behind the windshield.

The ID MAX.U2000 can handle up to 6,000 vehicle ID´s. Time limits can be applied per user. This allows the automated access for each user to be customized to certain hours, days, etc.

An integrated event logger records the last 10,000 events. With this feature you will have system transparency like an online system.

Software ID SW.MAX

With the software package ID SW.MAX all user-ID´s and time parameters can be managed on a PC. The software is included in the system. After the database is loaded into the controller ID MAX.U2000, the system works offline.

For smaller applications without individual time limits, the system can be operated without the ID SW.MAX software package. For these applications, the reader has a “Teach-In-Mode” to establish the appropriate user-ID´s.

Options: Inductive Loop Detectors and Motion Detectors

If multiple ID MAX.U2000 or other UHF-RFID systems are operated in close proximity, the use of an inductive loop detector or motion detector is recommended. ID MAX.U2000 provides a digital input to trigger the reading cycle. Higher Input/Output flexibility offers an optional available extension board.

Connecting a second inductive loop detector or motion detector to the ID MAX.U2000 prevents a second identification of a vehicle which is leaving the application area.

Suitable inductive loop detectors and motion detectors are available at FEIG ELECTRONIC.

Typical applications for ID MAX.U2000:
Impulse generator for opening industrial doors and vehicle access control system for parking lots / gateways.

FEIG ELECTRONIC GmbH
Lange Straße 4 · D-35781 Weilburg
Tel.: +49 6471 3109-0 · Fax: +49 6471 310999
E-Mail: OBID@feig.de ·www.feig.de

UHF RFID Vehicle Access Control System

ORDER DESCRIPTION

ID MAX.U2000-S

UHF Vehicle access control system, existing of:

- **Vehicle access control unit ID MAX.U2000**
- **Antenna ID ISC.ANT.U250/250-EU**
- **Mounting Set ID ISC.ANT.U250/250-MS**
- **10 m Special connecting cable**
- **Software ID SW.MAX on CD-ROM**

Optionally, special encoded transponders can be ordered at FEIG ELECTRONIC.

TECHNICAL DATA:

Software:

Supported operating systems:
Microsoft Windows 32 Bit operating systems:

- 2000
- XP
- Vista

System requirements:

- Personal computer with processor Pentium®3, 500 MHz (recommended 1 GHz)
- 128 MB RAM (256 MB recommended)
- Windows® compatible graphic card with minimum 800 x 600 dots resolution (1024 x 768 recommended)
- Windows® compatible mouse
- Hard disk with minimum 40 MB free storage
- CD-ROM drive
- RS232 COM interface

STANDARD CONFORMITY

Radio license	EN 302 208
EMC	EN 301 489
Safety	
Low Voltage	EN 60950
Human Exposure	EN50364

TECHNICAL DATA

ID MAX.U2000:

User management	6.000 user codes
Event storage	10.000 events
Time restrictions	16 time zones, 17 public holidays
Clock	buffered real-time clock
Dimensions	180 x 320 x 110 mm (7.11 x 12.65 x 4.35 in)
Housing	Plastic housing with cooling plate
Weight	approx. 2.000 g
Protection class	IP 54
Operating frequency	865 – 868 MHz (EU Reader)
Supply voltage	15-24 V DC +/- 5%
Power consumption	max. 30 VA
Supported transponders	Passive transponders (according to EPC class 1 Gen 2)
Reading range*	maximum 5 m
Antenna connection	2x SMA socket (50 Ohm) Multiplexer integrated
Interfaces	RS232C and RS485 / RS422 4.800 up to 115.200 Baud
Relay	1x change-over contact (24 V DC 2A)
Digital inputs	1x Optocoupler (5-10 V DC / 20 mA)
Temperature range	
Operation	–25 °C up to 55 °C
Storage	–25 °C up to 85 °C
Humidity	5% - 95% (non-condensing)

Antenna:

Color	Papyrus white (similar RAL 9018)
Dimensions	260 x 260 x 56 mm (10.28 x 10.28 x 2.21 in)
Housing	Plastic
Weight	approx. 1.500 g
Protection class	IP 54
Operating frequency	865 – 869 MHz (EU Antenna)
Polarization	circular (beam width 65°)
Antenna connection	SMA socket (50 Ohm)
Temperature range	
Operation	-25°C up to 55°C
Storage	-25°C up to 85°C
Installation	Clamping range for round profiles 30...60mm (1.18…2.36 in) Antenna adjustment in 3 axes

* Reading range depends on kind of installation, used transponders and environmental conditions.

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