

ID MAX.U1002

UHF VEHICLE ACCESS CONTROL READER

- Combination of UHF Long Range Reader and Access Controller
- Management of more than 4,000 access permissions
- Simultaneous monitoring of up to 2 lanes with read ranges of up to 12 m
- Non-volatile event memory, buffered real time clock and Teach-in-mode
- Quick and easy update of authorization data via Ethernet interface
- Secure Key Storage (Secure Element)
- USB service interface
- Anti Passback



myAXXESS

Make access control easy

Access control systems on buildings and parking areas should be as uncomplicated as possible. myAXXESS is the secure, powerful and economic solution for small and medium-sized projects. Both in a stand-alone systems and integrated into existing access solutions.

As a RFID specialist, FEIG ELECTRONIC offers systems from a single source, consisting of:

- › RFID hardware for short-range solutions (HF)
- › RFID hardware for long-range solutions (UHF)
- › Software myAXXESS Manager for administration of access authorizations
- › Transponders for granting authorizations (HF chipcards and UHF wind shield transponders)

UHF VEHICLE ACCESS CONTROL READER WITH INTEGRATED ACCESS CONTROLLER

Powerful UHF RAIN RFID Long Range reader with integrated Access Controller for Automatic Vehicle Identification (AVI).

Technical data

Dimensions (w x h x d)	260 mm x 157 mm x 65 mm
Weight	approx. 1,800 g
Housing	Aluminium, powder coated
Color	RAL 9003 Signal white
Protection class	IP53 (IP64 with protection cap*)
Power supply	24 V DC \pm 20 %
Power consumption	max. 24 VA
Operating frequency	
Variant EU	865 MHz up to 868 MHz
Variant FCC	902 MHz up to 928 MHz
Output power	
Variant EU	max. 2 W ERP
Variant FCC	max. 4 W ERP
Antenna connector	max. 2 antennas (SMA female 50 Ohm)
RF-Diagnosis	RF-channel monitoring, Antenna SWR control, Internal Overheating Protection
Outputs	
2 Optocoupler	max. 24 V DC / 20 mA
2 Relays	max. 24 V DC / 1 A switching current, 2 A permanent current
Inputs	
2 Optocoupler	max. 24 V DC / 20 mA
Interfaces	Ethernet, USB Mini (On-the-go)
Supported transponders	RAIN RFID, EPC Class1 Gen2
Indicator	16 LEDs for diagnosis of reader operation and antenna status
Other features	Battery-assisted real-time clock, Supports encrypted transponder communication, Secure Key Storage, Config Cloning function
Temperature range	
Operation	-25 °C up to +55 °C
Storage	-25 °C up to +85 °C
Humidity	5 % up to 95 % (non-condensing)
Vibration	EN 60068-2-6 10 Hz to 150 Hz: 0.075 mm / 1 g
Shock	EN 60068-2-27 Acceleration: 30 g

* Optionally a connector sealing cap is available which covers the connectors, offers a pull relief for the connected cables and guarantees protection class IP64.



ID MAX.U1002

Standard conformity

Radio license

Europe	EN 302 208
USA	FCC 47 CFR Part 15
Canada	IC RSS-GEN, RSS-210
EMC	EN 301 489

Safety

Low voltage	EN 60950
Human Exposure	EN 50364
Others	RoHS, WEEE

UHF VEHICLE ACCESS CONTROL READER WITH INTEGRATED ACCESS CONTROLLER

Powerful UHF RAIN RFID Long Range reader with integrated Access Controller for Automatic Vehicle Identification (AVI).

ID MAX.U1002 is a UHF Vehicle Access Control Reader that combines the features of a RFID reader and an access controller in one device. Place of use is everywhere where vehicles should be granted permanent access to employee parking lots, driveways to companies, authorities or other closed facilities (Perimeter Protection).

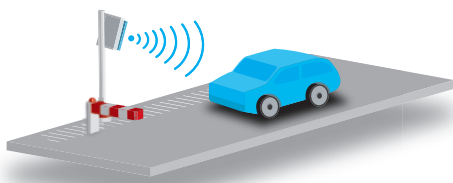
For identification of a vehicle in connection with the ID MAX.U1002 passive, maintenance-free UHF transponders are used, which can be stuck behind the windscreen of the vehicle. Supporting encryption techniques according to EPC Class1 Gen2 V2 specification like NXP UCODE DNA allows a secure authentication of detected transponders and prohibits access of transponders with cloned serial numbers.

With ID MAX.U1002 more than 4,000 access permissions can be managed and approx. 3,000 access control events can be stored. Each user can be assigned to additional temporal restrictions. Holidays and vacation days can be included, easily.

To monitor multiple lanes or the simultaneous checking of entry and exit, there are one antenna port and two digital outputs available, alternatively two relays as signal transmitter for barrier- or gate control units. ID MAX.U1002 is powered by external antennas, allowing the reader to be mounted in a safe environment and preventing unauthorized access.

Programming & Administration

Using the software myAXCESS Manager, user data and authorizations can be easily administrated and transferred to ID MAX.U1002 by using a temporary connection. After this synchronization, the reader can run offline as a standalone device. With the help of a USB stick, the event buffer as well as the entire configuration including the access authorization can be read out on the ID MAX.U1002. The simple "configuration cloning" allows this configuration to be conveniently copied to other devices by the same route.



The "Teach-In Mode" is used to teach the transponders to be accessed without the use of the software. If the reader is in this mode, all read transponders are automatically transferred to the access database.

Loop detectors and motion detectors as useful accessories

Loop detectors and motion detectors as pulse for starting the identification process do not only ensure an energy efficient operation of ID MAX.U1002. They also guarantee that always the right barrier or door is opened when several lanes exist. For this ID MAX.U1002 offers a digital input.

Suitable loop detectors and motion detectors are available from FEIG ELECTRONIC.



Perimeter Protection: Fast and safe access to industrial plants etc.



Parking Management: Comfortable access without waiting