

Increased sensitivity and a wide range of innovative possibilities in using the UHF Long Range Reader ID ISC.LRU1002

FEIG ELECTRONIC GmbH is pleased to announce hereby the availability of the new firmware version 01.06.00 for the RAIN RFID Long Range Reader ID ISC.LRU1002.



The new firmware equips the reader with a significant increase in receiver sensitivity and a variety of innovative features. Through an optimal price-performance ratio the reader with integrated 4-port antenna multiplexer is now even more attractive for all common UHF long-range applications.

The sensitivity of the reader could be significantly improved. In dependency of the used transponder type the maximum read range can be increased enormously thereby. In addition the increased sensitivity contributes to a safe and rapid capture of large transponder populations.

UHF RFID readers manufactured by FEIG ELECTRONIC distinguish from other UHF products available on the market through consistent high performance and sensitivity in all environments, whether only one reader or a variety of readers is active simultaneously. In order to meet this demand FEIG ELECTRONIC continued to improve the immunity to interference of the system with this firmware adaptation.

By means of the new firmware the reader offers full support in all operating modes for the first available on the market UHF RFID transponders with AES encryption, the UCODE DNA from NXP. Cloning transponders is almost impossible thanks to the full support of the new security feature of the transponder. Pedestrian and vehicle access control systems can be made more secure and, for example, counterfeit can be effectively prevented by the use of the new transponder. In addition the new security mechanisms support the implementation of the PIA framework with a view to safeguarding the privacy of users of RFID systems.



Next to the UCODE DNA functionality this firmware update provides another way of reader authentication. It is a specially developed method, which can be conveniently utilized in all previously installed systems where classical EPC Class1 Generation 2 transponders are used. Thus these existing applications can also be made more secure.

The output of the phase angle in combination with the RSSI value of the transponder response allows a distinction between moving transponders and static transponders located in the antenna field. Also a direction detection of the read transponder is possible with the use of multiple antennas.

The new firmware is rounded off by other configuration options such as an automatic signaling that no transponder has been detected within the specified trigger active time or an automatic shutdown of the RF field after the detection of a transponder within the trigger active time. In addition to the already low power consumption of the reader this contributes to save energy costs and increases the efficiency of the overall system

The properties described above have also been ported to the stand-alone access control system ID MAX.U1002. This allows a secure identification and verification of access authorizations in unattended access control systems in the absence of a network connection.

Please refer to the software release notes for further details. If you have any questions please do not hesitate to contact our customer support by phone (calling ++ 49-6471 -3109 – 0) or email (obid-support@feig.de).

About FEIG ELECTRONIC GmbH

FEIG ELECTRONIC is a German-based, worldwide leader in the manufacture of RFID reader systems.

OBID[®] readers, which are developed, manufactured and distributed by FEIG ELECTRONIC, are used worldwide.

OBID[®] readers are developed to meet or exceed public RFID standards in close collaboration with every leading manufacturer of transponder chips.

OBID[®] readers are available for all common frequencies as LF, HF, and UHF.

www.feig.de