

logident[®] Industrial identification

RFID systems for the digital factory in Industry 4.0





logident® High-performance RFID solutions as IoT interface

Reliable identification for transparent processes in digital enterprises

Industrial processes in digital enterprises require complete transparency and a high degree of individualisation. Our RFID solutions reliably connect the real world with digital systems.

This opens up new automation potential along the entire production and supply chain.

Do you want to control your production flexibly, manage your assets efficiently, track products and components reliably and synchronise your supply chain intelligently?

As an innovative supplier, deister electronic provides a consistent and scalable RFID product portfolio in the field of secure identification and automation solutions.

The universally integrable products offer the perfect solution for every application area and every requirement - to identify and digitise goods and means of transport with RFID.

As a specialist in RFID for many years, we support all frequencies (LF, HF & UHF) and are at your side - right up to integration with your own automation systems.

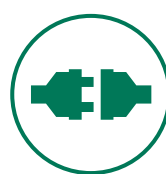
Reliable, compatible and flexible in its application

Easy to integrate into the industrial network



No battery

Our identification systems are based on passive RFID technology (UHF, HF & LF). The transponders work without battery and have a very long life span.



Compact, plug & play

Our compact readers with integrated antenna can be installed in a space-saving way and can be connected quickly and easily with just one cable.



Rugged

The rugged industrial-standard housing design ensures long durability and optimal performance in all production environments.



Secure identification

A specially developed data format, „deister smartFrame“, ensures tamper-proof and reliable identification of our transponders.



High-performance

The powerful readers with protection class up to IP67 and the high-quality transponders guarantee secure identification of the goods.



Made in Germany

All products are „Made in Germany“ and are developed, produced and tested to the highest standards of function and quality.

1 Passive LF & HF RFID systems

Secure identification for managed processes

The powerful and robust readers in the LF and HF range are ideally suited for use in industrial automation, warehousing and logistics, as well as in all managed processes. Due to the compact design and the extensive read and write range, the readers can be installed easily and in a space-saving manner even in difficult positions and in surroundings with metallic surfaces.



2 LF HF transponders

Suitable for every requirement

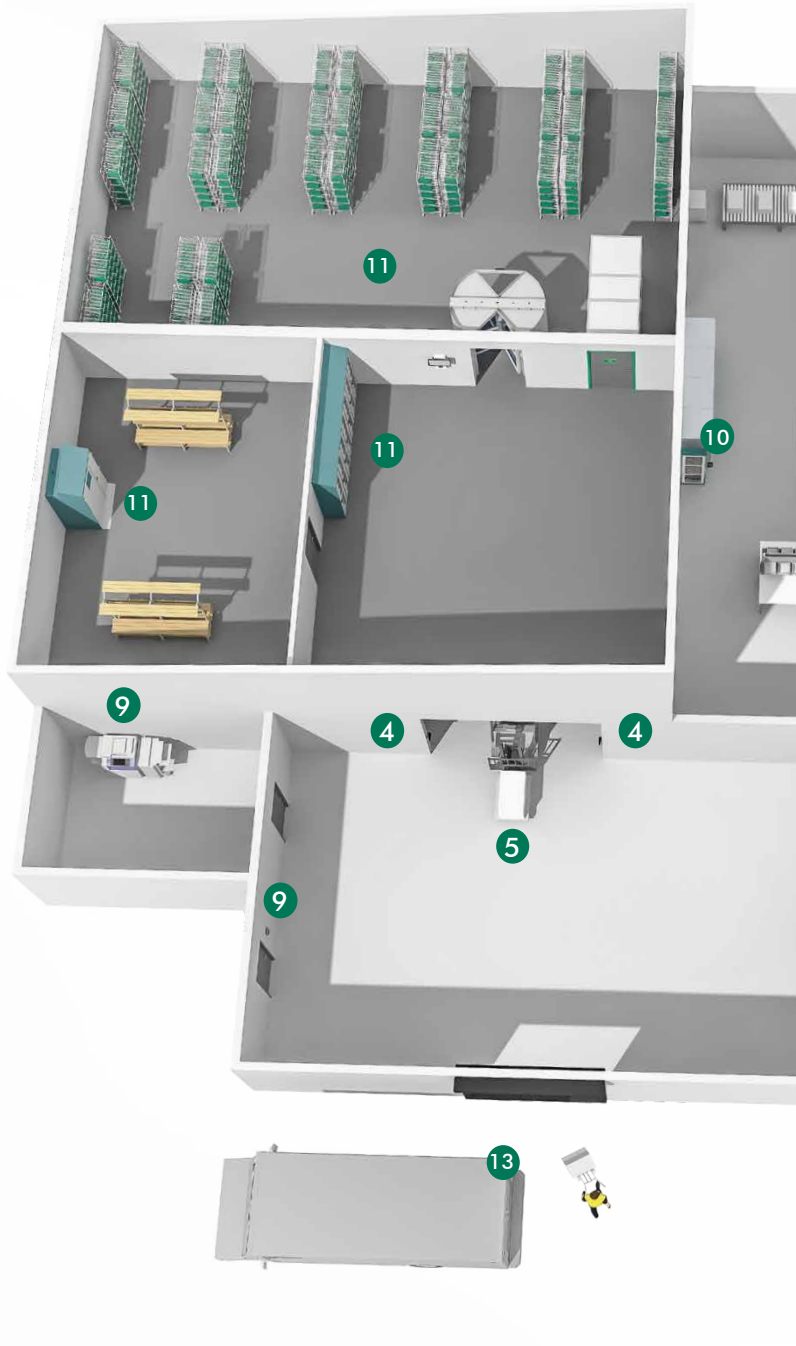
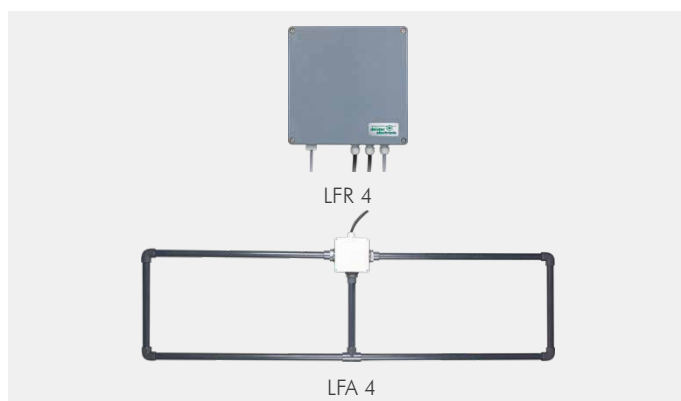
The passive LF and HF disc transponders have been developed explicitly for harsh environments (IP67) and are particularly rugged and durable. In addition, there are special on-metal transponders encapsulated in the housing, as well as the dual-frequency transponder DDC 35 M (LF and NFC). The transponders utilise high data rates for fast identification and are ideal for use in logistics, automation, on vehicles and in outdoor areas.



3 LFR 4 LF Long Range Reader

Identification in rail transport

The LFR 4 is a reader specially designed for loop antennas. With the help of the integrated „Autotune“ function, up to 4 antennas can be automatically calibrated for maximum reading performance. Depending on the antenna used, the LFA 4 antenna can, for example, also be used to quickly and reliably detect moving railway vehicles.



4 Passive UHF RFID systems

Powerful with integrated antenna

The TSU readers impress with their extremely robust aluminium die-cast housing with compact design and an integrated antenna. This means they can also be installed in confined spaces. Reader and antenna are built into one housing and optimally tuned to each other by the manufacturer. This enables reliable adjustment of the reading performance! The TSU 200 achieves a range of up to 7 m.

The operating status is signalled via clearly visible LEDs. All connections on the reader are designed as M12 connectors.



5 UHF transponders

Rugged and durable

The passive UHF transponders are rugged, durable and designed for harsh industry environments (IP67). With on-metal mounting, a wide reading angle and a long reading range, they are ideally suited for applications in logistics, factory automation, vehicle identification, etc.



7 LF HF UHF Table reader

PC item identification

The table readers with LF, HF and UHF functionality make it easy to assign transponders to the control system. They are connected to the PC via USB.



6 THH Handheld

Mobile data collection

The Quadro Handheld is the latest generation of the rugged handheld scanner. It is equipped with LF, HF and UHF reading technologies. Optionally, a fourth reading technology, a QR/barcode scanner, can be retrofitted. After scanning the handheld is easily read via a USB interface.



8 POC

Finding the ideal reading location

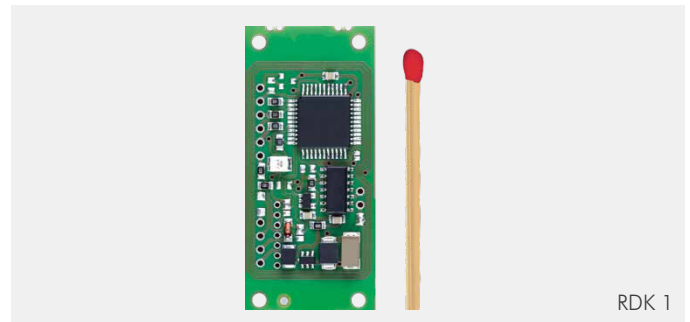
When installing a system for long range identification, the reader and transponder must be optimally positioned so that all goods and items can be reliably detected. An efficient solution for this is the patented POC field detector. It quickly shows the appropriate position in the field – and also the respective dead spots that are to be avoided.



9 RFID system components

Easily fit devices with RFID functionality

The compact 13.56 MHz RDK 1 ISO read/write module with integrated antenna is ideal for easy integration into mobile equipment, HMI, medical devices and printer technologies with limited space availability. Configurations are also possible with an external antenna and customised software.



Solutions and applications

Ready-made solutions are available for these areas:



10 Operating equipment and tools

Tools and equipment are intelligently organised and managed. Access is logged.



11 Workwear

Textiles for each work area are automatically managed and issued to the respective employees.



12 Municipal and commercial waste disposal

Automatic identification of waste containers takes place during the collection tour.



13 Vehicle locking system

Automatic opening and closing ensures security around the vehicle and its cargo. The transponder replaces the key.

logident® Areas of application

The scalable RFID system for every requirement



Production

The continuous collection of data from moving objects (raw materials, tools, workpieces, finished products) along the production and supply chain is essential to efficiently utilise the advantages of digitalisation. With RFID technology, goods can be tracked seamlessly.



Rail transport

Rail vehicles and their components are automatically and digitally identified with RFID. The collection of all data in the system enables predictive monitoring. The rugged technology also works in the harsh environmental conditions that prevail in rail transport.



Mechanical and plant engineering

Electronic access management increases process reliability through controlled and authorised machine access. With HF and LF readers, employees can be reliably identified and access rights are optimally realised and documented.



Logistics, storage und transportation

Knowing at all times what is where and in what condition - that is what makes optimal supply chain management stand out. Examples are the monitoring of incoming and outgoing goods, the distribution of goods or automatic track & trace independent of location.



Special machinery and equipment

There is great potential for optimisation in many areas. With integrated HF or LF RFID readers, the original equipment can be reliably identified and a long service life for the device can be guaranteed. In addition, measurement data is transmitted contact-free and tamper-proof.



Conveyor technology

Material flows are intelligently and transparently aligned for the future. Production orders are seamlessly recorded and components are synchronously fed. The unique identification ensures individual and economical production.

About deister electronic

deister electronic is an innovative, family owned global business with 40 years of experience in developing electronic and mechanical products for security and industrial automation. Widely acclaimed for our expertise and specialist implementation of RFID technology within practical applications, from key management and access control to logistics and process control.

deister electronic GmbH

Hermann-Bahlsen-Straße 11
30890 Barsinghausen, Germany
E-Mail: info.de@deister.com
Tel.: +49 5105 516111
Fax: +49 5105 516217