Process transparency and reliability

Automatic RFID identification with Logopak







RFID at Logopak

Logopak offers professional automatic systems for the secure programming and application of RFID tags. The manage.ID middleware enables integration and connection to ERP (Enterprise Resource Planning) production systems as well as the recording of RFID data in the ERP system.

RFID technology, on its own or in combination with printed barcodes, turns mass products into uniquely identifiable objects. RFID-based identification solutions can also be used in applications where traditional barcodes are unsuitable.

The data contained on the RFID tags enables comprehensive automation in the process industry, e-commerce or logistics. They thus become a decisive pillar for the Internet of Things (IoT) and Industry 4.0.

- » Each chip has a unique serial number (UID/TID) enabling unique identification at the individual product level
- » The inclusion of a sensor on the RFID-tag allows access to environment variables such as temperature and hummidity in real-time with the product ID.
- » Visual contactless communication between RFID/NFC transponder and read/write system
- » Insensitivity to dirt and an almost 100% first reading rate
- » Simultaneous reading of several products in one working step (bulk reading)

What is **RFID**?

RAIN RFID is a wireless ID technology that connects products to the internet, enabling businesses and consumers to identify, locate, authenticate, and engage each item. RFID tags do not require visual contact. The information from the RFID tag is transferred to an RFID reader and vice versa.

Unlocking unparalleled efficiency and transparency, RAIN RFID, built upon the GS1 and ISO/IEC standards, is pushing the performance for industries like

Applications:

Automotive industry

- » Inspection and traceability of critical parts
- » Efficient intralogistics with SLC

Logistics sector

- » Control of incoming and outgoing goods
- » Avoidance of inventory bottlenecks
- » Supply Chain Transparency

Trade

- » Tracking & tracing from the manufacturer to the cash register
- » Simple handling of returns

Packaging material

- » Labelling of consumables for the beverage industry
- » Logistics process for raw materials/paper industry

Pharma

» Tamper-evident seal

Logopak is a member of:







automotive, logistics, and internal process quality anywhere. It is offering ease of use and the power of globally recognized standards. RFID also opens up many possibilities for the "Internet of Thing" (IoT). Depending on the application, RAIN RFID (UHF; far field) and NFC RFID (HF; near field) systems are used.

The RFID transponder usually remains on a product and thus ensures reliable traceability.



Proven RFID technology in practical use

RFID technology from Logopak offers a wide range of possibilities

Proven in practice

One example is the paper industry, where RFID technology has been used for years for quality control and track & trace within the supply chain.

Tamper proof security

As a closure control for packaging, variously designed tags with built-in sensors provide reliable protection. When the RFID tag is read, any unauthorised opening of the packaging is reported.

RFID from start to finish

Dual-frequenzy tags can be use and read with both RAIN and NFC technology. While RAIN can be used with a good reading range in supply chains and logistics, NFC also allows data to be read by private end users with smartphones, for example.

On metal

The further development of RFID technology has made the use of tags on metal surfaces much easier.



RFID technology with different labelling options

Labelling of flat surfaces

The most common method for applying RFID labels and inlays to products and pallets. After describing and checking the RFID data, it is applied to the target with a simple movement of the applicator.

Labelling in the automotive industry

Many German automobile manufacturers are equipping their small load carriers (SLCs) with RFID tags so that they can be used more efficiently within the process chain.



Core labelling

The marking on the core before rolling up the product is very beneficial for rolled goods. This allows production quality and internal logistics to be supported by RFID technology.

Roll core labelling

Rolled up goods can be marked retrospectively on the inside of the core. The rolls can then be detected automatically – even after partial consumption of the rolled up goods.

RFID in the Supply Chain





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Faster. Safer. Greener.



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