



RFID/NFC TAGS

RFID/NFC dual frequency tags

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The industrial tags from smart-TEC are also available in dual frequency RFID/NFC technology. This combines two [RFID frequencies](#) in one industrial transponder: **Ultra High Frequency (UHF)** and **High Frequency (HF)** or **Near Field Communication (NFC)** - all in a single chip.

The dual frequency RFID/NFC chip enables **communication with UHF readers** for long ranges, but also with mobile devices such as smartphones or tablets for **interaction at close range using NFC technology**.

By sharing the extensive variable chip memory and a common one-to-one chip ID, seamless storage and retrieval of data on the chip is made possible - regardless of the frequency used.

Our industrial tags with integrated dual frequency technology are suitable for the harshest environmental conditions, such as waste water, dirt, mud, heat or cold, and can be attached to

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Commercial register entries: Andreas Schräggle GmbH

Registered office Munich: AG Mchn. B 44890, smart-TEC GmbH & Co. KG: AG Mchn. A 8238 - VAT ID no.: DE 129 725 198

any surface using mounting holes, cable ties, magnets and special adhesive systems. The additional explosion protection certification of our industrial tags enables them to be used in potentially explosive environments.

Your benefits at a glance:

- ✓ Cost savings thanks to a clever combination of stationary UHF readers and mobile NFC devices.
- ✓ Additional cost savings, as only one industrial transponder needs to be purchased and installed, regardless of the reading ranges required in the area of application
- ✓ Safe contactless detection of objects, machines and tools, both at close range and at a distance
- ✓ Seamless storage and retrieval of data on the chip, regardless of the frequency used

Most important area of application:

For all company processes along the entire value chain, from goods receipt, internal logistics, storage, goods removal, further processing, interim storage to shipping, maintenance, servicing and inventory

Technical data



All properties of our RFID/NFC labels are optimized to your project requirements and application purposes.

Frequency	125 kHz/ 134 kHz (LF), 13.56 MHz (HF+NFC), 860-960 MHz (UHF)
Material	Polyurethane, Aluminum, Stainless steel, Paper, PET, PVC, PCB FR4
Labeling	Pressure, Laser treatment
Fastening	Self-adhesive, Mounting holes for cable ties, screws and rivets, Magnet, Without fastening option
Delivery form	Isolated

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Suitability for metal surfaces

Yes

Further options**Certified RFID/NFC transponders in accordance with ATEX (Directive 2014/34/EU, IECEx and UKEX)**

Our RFID/NFC transponders of the type smart-DOME Freestyle and smart-DOME Classic are tested and approved for use in category 2 hazardous areas.

Further information about ATEX can be found [here](#).

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