

Company Short Presentation

Production and Development of RFID components



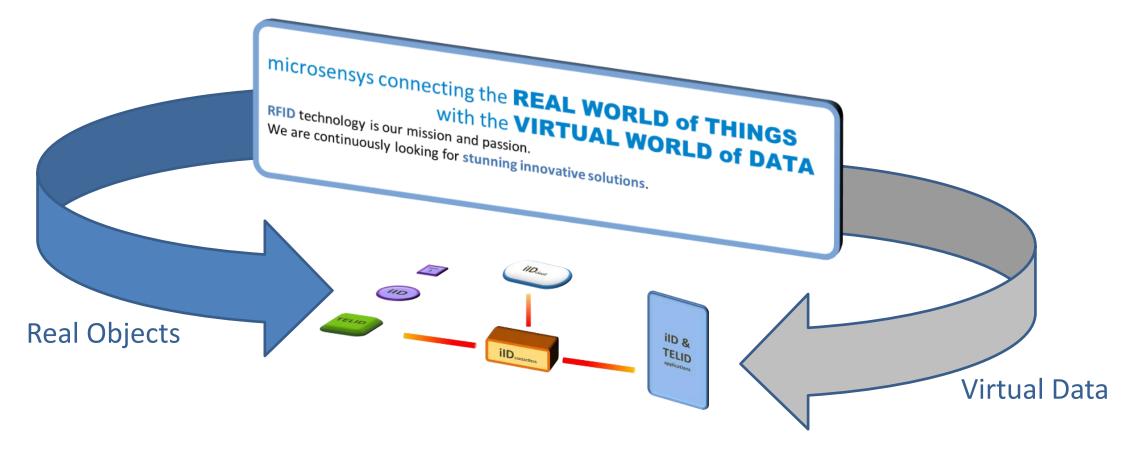


Solution Partner Micro-Sensys GmbH

Ver. 03/2024-06







our strategy

in-house production and development operating in niche markets with own product portfolio competencies in RF, sensor and mobile computing technologies

Our wireless ID and sensor solutions



our offer

from components up to complete Auto-ID solutions

from consulting, in-house design, in-house production up to system support

including customization of hard- and software components

mix of wireless technologies: HF, UHF, SENSOR, BLUETOOTH

flexible stationary and mobile data capturing based on deep knowledge in wireless

communication and data encoding

mic3[®] miniaturized transponders iID[®] transponders

TELID® wireless sensors

ilD®contactless readers ilD®contactless gateways

ilD® &TELID® applications ilD®cloud data Services

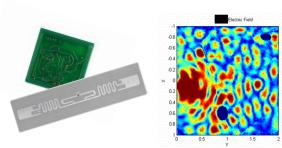


iID® COLLECTit! basic

Our products



projects, OEM design



- realization concept
- design & simulation
- prototyping
- OEM design & production

PRODUCTION special transponders



- miniaturization
- special packaging
- critical environments





PRODUCTION

wireless sensors





- passive
- active ultra low power
- rugged design
- special sensors

PRODUCTION

smart readers / reader modules







- mobile
- low power
- smart, innovative

software/ systems



- iID® net
- software & tools for PC, Android, iOS & embedded
- cloud data collection (via partners)



Where to find us







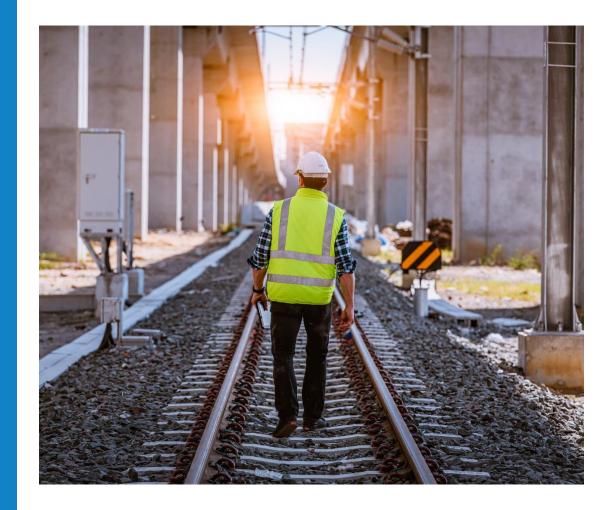
Micro-Sensys GmbH In der Hochstedter Ecke 2 D 99098 Erfurt

- Founded in 1991
- 35 employees
- 1300m² leased area on three floors 800m² production area 500m² administration and development

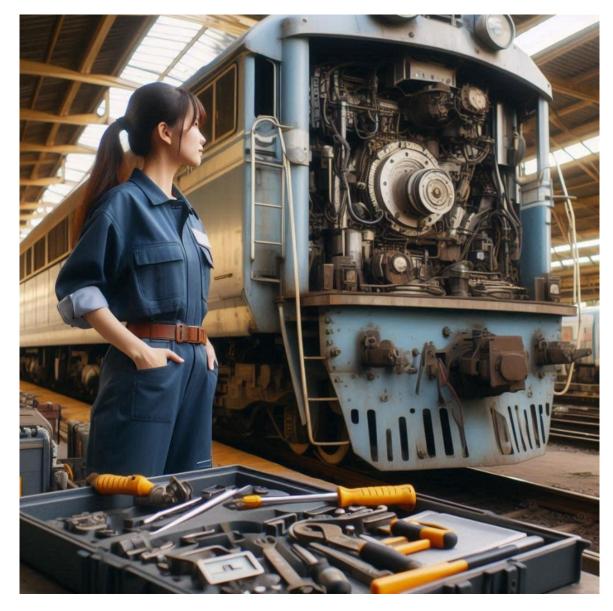
Overview



Wireless ID & sensors for Railway applications



Identification of component parts







- Identify critical component parts on the train (e. g. axis, breaks, and more)
- Read GS1 compliant serial numbers of robust passive UHF transponders according to GIAI or SGTIN encoding schemes
- Improve the maintenance processes using standard smart devices

Railway optimized components





- Robust designs according EN50155 feature sets, supporting ISO/IEC61406
- UHF or NFC plus UHF in one transponder – best fit for component ID
- Special designs support ed by EM echo chip
- Smartphone AND UHF mid range / long rage capability

Railway optimized components

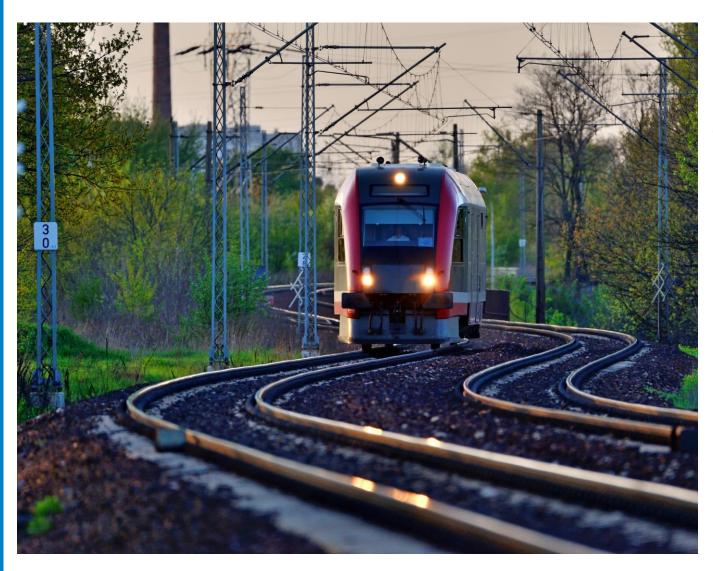




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Programming of digital name plates







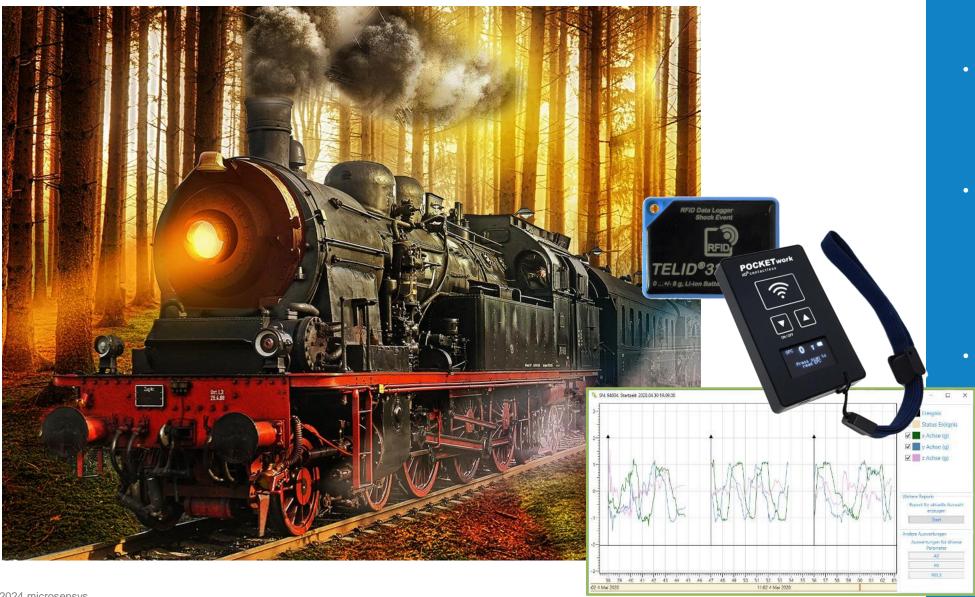


- Enconding and programming of digital name plates in place with GS1 encoding schemes using iID®EPCprogrammer app for Andriod
- Use the app to easily program GIAI or SGTIN
- Improve mobile processes using standard smart devices
- Fixed solution available for in house production





Predictive maintenance for trains & rails





- Reduce your costs and planning effort for the maintenance process for trains
- Based on the course of the vibration, material and environmental related changes during use can be recognized at an early stage
 - Detect material fatigue and reduce unplanned downtime

Checking screw connections



- - Improve the safeness of trails with monitoring of fixation of screws
 - Long term monitoring of screw connections for rails, rail switches and sound barrier walls based on passive RFID sensor transponders TELID® 260
 - Intelligent nut allows preload forces on screw connections to be measured contactless and in real time without changing the connection in any way



References



Name plate customization, examples











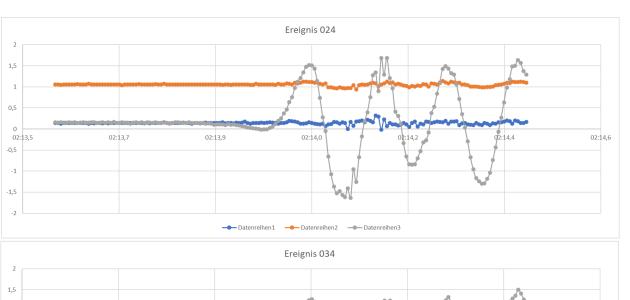


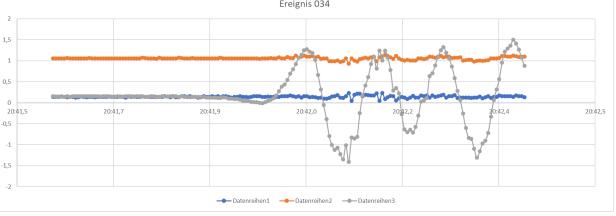


Acceleration sensor for Infrastructures













MAKE THINGS WIRELESS

Please contact info@microsensys.de

microsensys GmbH

In der Hochstedter Ecke 2 D 99098 Erfurt

Germany

TEL +49 361 59874 0 **FAX** +49 361 59874 17 **EMAIL** info@mirosensys.de **WEB** www.microsensys.de

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