

Your Global Automation Partner

TURCK

Identification Solutions for the Pharmaceutical Industry



Product images are linked to further information.

Solutions for Reliable Identification of



Tube connections for precursors

- Increased plant safety and personal protection with large tube connections
- HF RFID tag, freely rotatable, integrated in process connection
- Cost-effective solution through RFID bus mode



Monitoring of connections

- Increased plant safety thanks to possibility to identify cable branches, field devices or covers
- HF RFID tag integrated in the threaded cap



Tube connections in Ex Zone 1

- Increased plant safety and personnel protection in the Ex area
- Cost-effective solution thanks to RFID bus mode



Field devices

- Efficient management and documentation of device maintenance
- Different fixing options of the HF tag to field devices





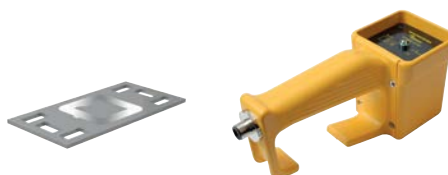
Accessories for big bags and bioreactors

- Increase of quality and process reliability
- Automatic assignment of tube connections during production in single-use systems



Accessories for single-use applications

- Increase of quality and process reliability
- Attachment of the HF RFID tag to packaging and connection materials



Machine operators

- Individual Permission/Access Control
- More secure than PIN method, that could be spied out and used by unauthorized persons



Data Matrix on medication boxes

- Transparent production and traceability
- Reading and visualizing Data Matrix codes on medication boxes
- Standardized interface to the database





Cryovessels

- Avoidance of assignment errors through non-interchangeable identification with RFID
- Secure identification even of inaccurately positioned vessels with large HF read/write heads



Mobile vessels controlled with handhelds

- Controlling the identity and the time stamp of vessels to be sterilized with RFID technology
- High flexibility through manual positioning of the HF handheld



Mobile vessels

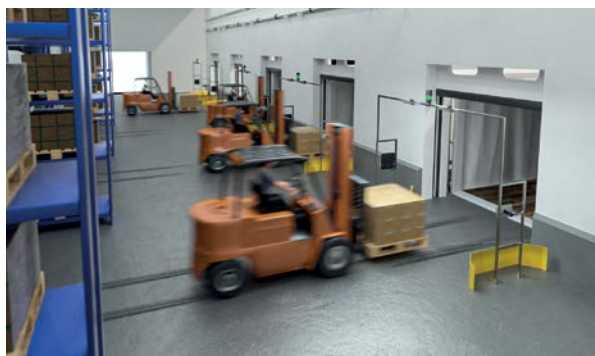
- Assurance of product quality through automatic monitoring of the identity of system components through HF RFID technology
- High flexibility when using different components



Goods carriers in autoclaves

- Control and documentation of autoclave processes by recording goods carriers during loading and unloading
- Special tags for high temperature, humidity and pressure loads for pasteurization and sterilization applications





Pallets in a gate

- Reliable pallet identification also with fast pass-through
- Especially powerful and economical by connecting other passive antennas in multiplex operation



Pharmaceutical samples on leaving the warehouse

- Reliable identification and documentation of all pharmaceutical samples
- Full identification of all samples by using multiple antennas



Pharmaceutical samples on route to the laboratory

- End-to-end identification and documentation of all pharmaceutical samples in building corridors
- Full identification of all samples by using multiple antennas

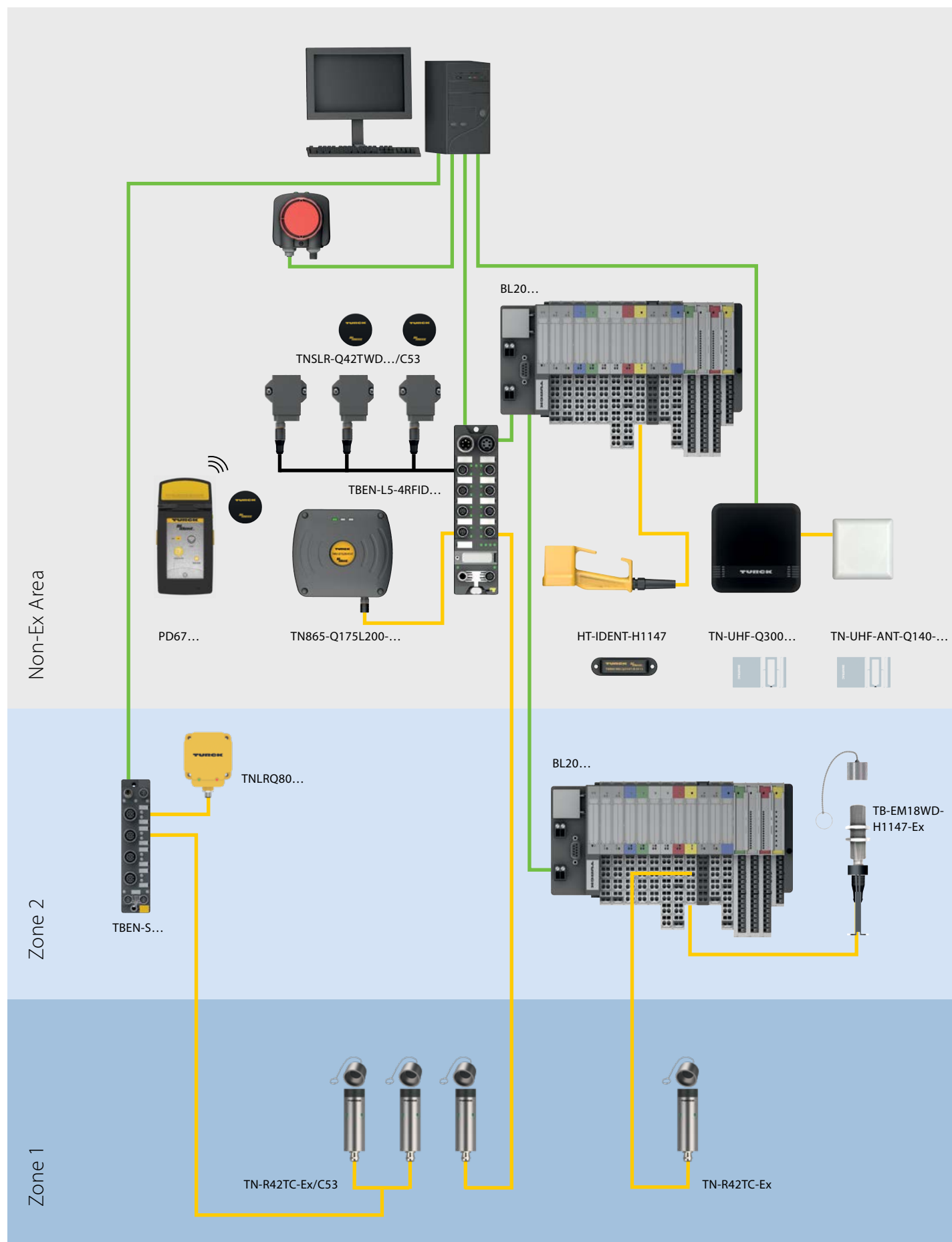


Pharmaceutical samples in the laboratory

- Reliable identification of the supplied samples
- Complete solution of sample, documentation and control slip



For different identification tasks in the pharmaceutical industry, Turck offers the optimal solution



These products are used in the application examples

Read/write heads	Type designation	Dimensions	Description
	TB-EM18WD-H1147-Ex	18 mm threaded barrel	HF technology, compact threaded barrel, for Ex Zone 2/22
	TN-R42TC-Ex/C53 also available without bus mode	Ø 42 mm x 128 mm	HF technology, cost-effective connection of multiple devices to an RFID interface via bus mode, compact smooth barrel, for Ex Zone 1/21
	TN-Q14-0.15-RS4.47T	52 x 30 x 14 mm	HF technology, compact
	TNSLR-Q42TWD-H1147/C53	67.7 x 42.5 x 42.5 mm	HF technology, protection type IP69K, very long range with compact design, cost-effective connection of multiple devices to an RFID interface via bus mode
	TNLR-Q80L400-H1147	102 x 83 x 40 mm	HF technology, protection type IP67, very long range
	HT-IDENT-H1147	190 x 85 x 70 mm	HF technology, read/write head for manual operation
	PD67-UNI-EU-RWBG	214 x 105.7 x 50.5 mm	HF and UHF technology, robust handheld in protection class IP67 for reading and writing RFID tags from any location, with Wi-Fi and Bluetooth, also available with scanner for reading barcodes and 2D codes.
	TN865-Q175L200-H1147	200 x 175 x 60 mm	UHF technology for particularly long range
	TN-UHF-Q300-EU-CDS and TN-UHF-Q300-EU-LNX	300 x 300 x 61 mm	UHF reader for use of passive UHF antennas
	TN-UHF-Q180L300-EU-LNX	180 x 300 x 61 mm	UHF reader for use of external antennas, without internal antenna
	TN-UHF-ANT-Q260-EU	260 x 260 x 30 mm	Passive UHF antenna
	TN-UHF-ANT-Q140-EU	140 x 140 x 26 mm	Passive UHF antenna
Tag	Type designation	Dimensions	Description
	Tube tags, on request		HF tags for mounting on tubes
	TW-L86-54-C-B128	86 x 54 x 0.8 mm	HF tag in credit card format
	TW-R30-M-B128	Ø 29.9 mm x 10 mm	HF standard tag for flush installation in metal
	IN TAG 300 SLIX and DS-R30 (spacer)	Ø 30 mm	HF standard tag for medium ranges
	IN TAG 500 SLIX and DS-R50 (spacer)	Ø 50 mm	HF standard tag for long ranges
	TW860-960-L73-17-F-B40	73 x 17 mm	UHF standard tag in plastic label
	TW860-960-L73-17-P-B40	73 x 17 mm	UHF standard tag in paper label
	TW860-960-L73-17-F-B42-100PCS	73 x 13 mm	Self-adhesive UHF tag
	TW860-960-L73-17-P-B42-100PCS	73 x 13 mm	UHF tag for printing and affixing
	TW860-960-L72-21-P-M-B210-5KPCS	73 x 21 mm	UHF tag for fixing on metal
	On request		Snap-on cap with integrated tag and attachment chain for Zone 1/21
	TW-ISPTFE-..., on request	Ø 22 mm x 20 mm	Screw cap with integrated tag and attachment chain for Ex Zone 2/22
Other Devices	Type Code	Dimensions	Description
	IVU2PRBW08 (sensor)RD35 (remote display)	81.2 x 77.5 x 51.5 mm (sensor), 97 x 83 x 23 mm (display)	Barcode reader with remote display



Product images are linked to further information.

Identification Solutions for the Pharmaceutical Industry

Tailor-made products for pharmaceutical applications

- Comprehensive portfolio of application-optimized RFID tags and read/write heads for the pharmaceutical production
- Solutions for use in hazardous areas up to Zone 1/21
- Resistant to cleaning processes

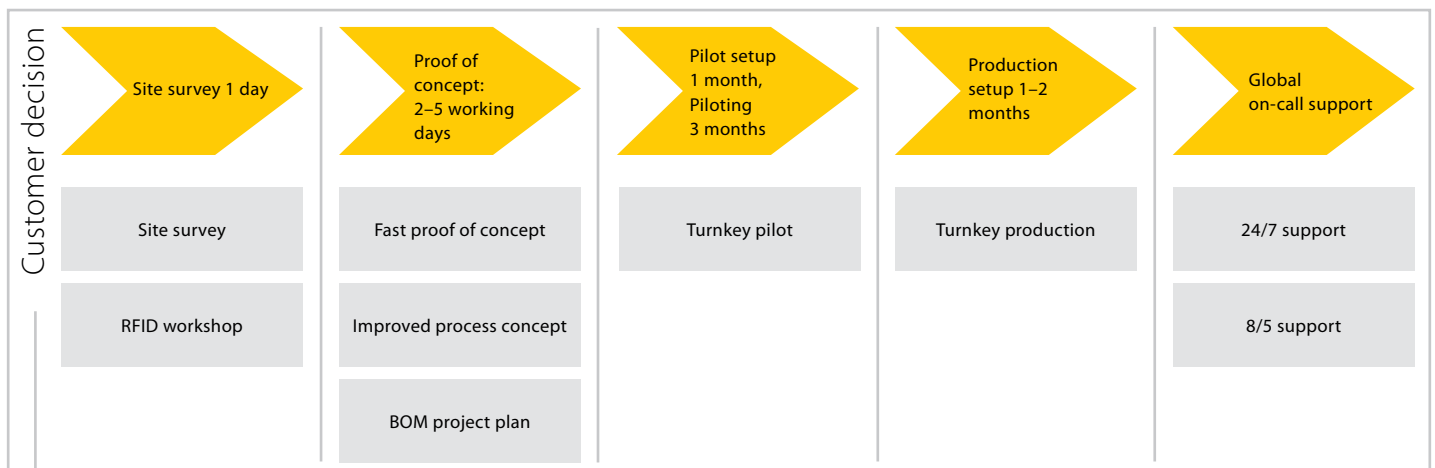
Benefits of Track & Trace in pharmaceutical production

- Improved plant safety through automatic and tamper-proof monitoring of the correct device assignment and correct use of devices such as tube connections or cryovessels
- Higher personal protection by avoiding media contact with tube connections

- Increased product quality through reliable identification and documentation of precursors and intermediate products
- Serialization through complete traceability of pharmaceuticals from production to transportation
- Seamless identification and documentation of pharmaceutical samples in building corridors and at entrances and exits
- Safe use of field devices by ensuring correct device operation and monitoring maintenance intervals

Realization of turnkey solutions

From process design to selecting the right tags, our RFID experts are there for you. A successful RFID project starts with a site survey conducted by our specialists. This is followed by our 5-step model for success and — upon request — smooth operation thanks to our 24/7 support. Our experience ensures your success.



Over 30 subsidiaries and
60 representatives worldwide!

