

metraTec® UHF RFID Tunnel UTx

One of the most promising areas of application for RFID technology is the optimization of supply chains. Goods that are equipped with UHF transponders can be scanned automatically while moving from the factory via the distribution center to the point of sale with correct amount and location of every object always stored in the company's IT system.

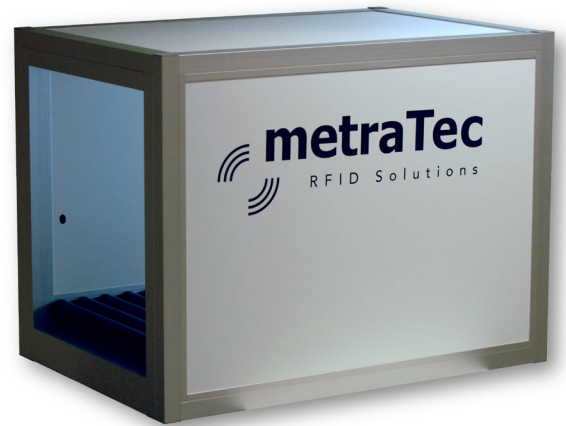
To fully use this potential, it is important that all transponders in an application are found and scanned. To reach this goal, metraTec offers its UHF RFID Tunnels UT55 and UT75. Using a special RF construction an optimal distribution of the reader field inside the tunnel is guaranteed. This allows for extremely high read rates of UHF transponders even in difficult situations (metal in the field, transponders very close to each other, etc.). Even high numbers of tags (400 and more) can be scanned in a few seconds with this product.

Applications

- Automatic scanning of a high number of UHF transponders
- Integration into conveyor belt possible (optional component)
- Sequencing of objects via optional software algorithm

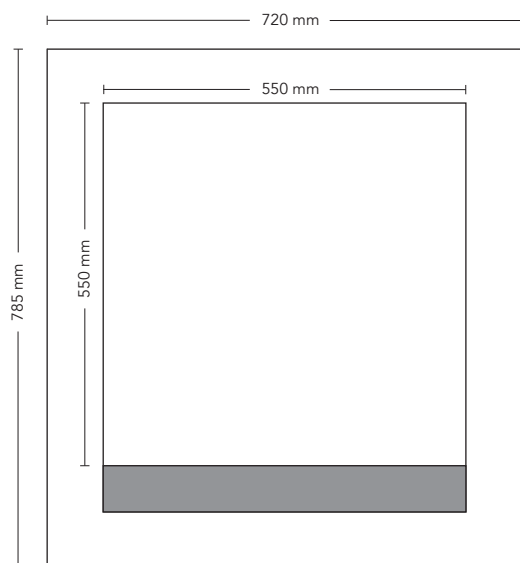
Further RFID Components from metraTec

Different RFID components from metraTec like antennas and readers are integrated into our UHF tunnels. Optionally, we can include our Q-Server Appliance which filters tag data inside the tunnel and sends the results to any database for a quick integration into your IT system.



Technical Specification

Operating Principle	UHF RFID Tunnel
Operating Frequency	850 - 950 MHz (UHF RFID)
Protocol	EPC Class 1 Gen2
Interface	Ethernet (100MBit)
Operating Voltage	24 VDC
Inputs	2x Light Barriers (Entry/Exit)
Outputs	Optional: Light Signal, LCD Panel
Inside Dimensions	UT55: 55 x 55 x 100 cm (WxHxD) UT75: 75 x 75 x 100 cm (WxHxD)
Outside Dimensions	UT55: 72 x 78,5 x 100 cm (WxHxD) UT75: 92 x 98,5 x 100 cm (WxHxD)
Operating Temperature	0 - 50 °C
Weight	UT55: approx. 50 Kg UT75: approx. 60 Kg
Ingress Protection	IP42
Conformity	CE, e.g. ETSI 302 208, optional: FCC, CCC, etc.
Communication Protocol	Connects to all usual ERP systems, databases and proprietary systems using metraTec's Q-Server Appliance



Dimensions UT55

At a Glance

- Highest read rates under difficult conditions
- High number of tags readable
- Easy integration into IT environment

About metraTec

metraTec develops, manufactures and sells RF hardware for the product segments „Identification“, „Localization“, „Communication“ and „Wireless Power“. It serves a variety of industries, both with standard products as well as custom solutions. Our customers are system integrators, OEM customers as well as research institutes world wide.

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