metraTec® Lambda40 HF Antenna

The metraTec Lambda40 is an RFID antenna for HF systems with an operating frequency of 13.56 MHz. With its size of 400 x 400 mm (approx. 17 x 17 ") it can handle an RF output of up to 4 W permitting reading ranges of up to 60 cm (approx. 2 ft) with a suitable reader. Its robust metal structure and the water-proof IP65 housing make it well suited for rough industrial environments like factory floors, laundries or shipping departments.

The antenna works with many long range readers on the market and has been tested with models from several manufacturers. In addition to the standard size, custom sized versions in almost any size are possible. Limits are only set by the power of the RFID reader as well as local regulations regarding field strength. Please contact our sales team for any questions on this issue.

Applications

• Installation under or above conveyor belt for packet identification
• Laundry identification
• General long range reading tasks in industrial environments
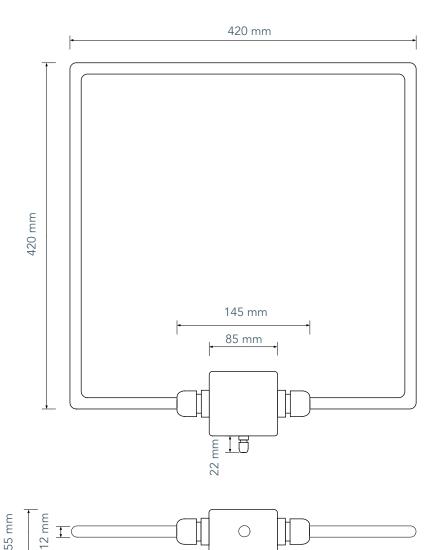
Further RFID Components by metraTec

metraTec offers a comprehensive set of RFID products that enables its customers to set up RFID systems whose components work together seamlessly. This antenna interfaces perfectly with our range of HF multiplexers, which enables you to connect up to 16 antennas to a single long range reader. For this you can use almost any RFID reader on the market which is strong enough to power this antenna - such as our QuasarLR long range reader.

Technical Specification

Operating Principle	RFID Loop Antenna
Operating Frequency	13.56 MHz
System Impedance	50 Ohm
Max. RF Input Power	4 W
Antenna Connector	BNC (others, e.g. SMA on request)
Temperature Range	-40 °C to +85 °C (-40 °F to +185 °F)
Dimensions	420 x 440 x 55 mm (16.9" x 18.1" x 2.2 ")
Ingress Protection	IP 65
Max. Reading Range	up to 60 cm / up to 2 ft

At a Glance

• Robust design with IP65

• Long range reading capability

• Custom sizes available

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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