

## metraTec® Echo-N UHF Antenna

The Echo-N is a real UHF near-field antenna for the European frequency range at 868 MHz. The antenna does not form a far-field, so that readings caused by reflections or mutual interference of several systems in the immediate vicinity are not a problem. This allows the reading of UHF transponders in a very defined space, e.g. for small products on a conveyor belt.

The dimensions of the industrial housing are 102 x 82 x 25 mm (plus antenna connector on the lower side). The reader is connected via a robust R-TNC connector.

The housing is closed at the rear by a continuous aluminum plate, which makes the antenna also robust against external influences. The antenna can be flexibly installed via a wall bracket. Alternatively, it can also be screwed directly onto any surface (including metal surfaces).

## Applications

- Reading of UHF tags in shortest distance
- UHF in water containing applications
- Read tags regardless of polarization



## Technical Specification

Operating Principle	Inductive UHF near-field antenna
Resonance Frequency	868 MHz (UHF RFID, Europe)
Bandwidth (-15 dB)	861 - 870 MHz
Polarization	no (only near-field)
Nominal Impedance	50 Ohm
Antenna Gain	-20 dB typ.
Max. RF Power (acc. to ETSI)	27 dBm ERP
Dimensions	102 x 82 x 25 mm (without connector)
Connector	R-TNC
Housing	Plastic, IP54

## At a Glance

- Spatially limited UHF field
- Pure inductive coupling
- Compact form factor

## About metraTec

metraTec develops, manufactures and sells 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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