

metraTec® UHF Field Analyzer Kit

The metraTec UHF Field Detector measures the field strength present in the 868 MHz band which is emitted by UHF RFID readers. Two LEDs show whether certain thresholds in field strength are exceeded. This values can be configured freely, e.g. to correspond to the tags used in your application.

For a more detailed measurement the values are wirelessly transmitted via the integrated ZigBee module to a PC or PDA that is equipped with the included metraZed USB stick. More than one sensor can transmit to a PC at the same time which allows for complex measurement setups and test scenarios. The configuration and visualization software (for Windows XP or higher) is also included in the kit.

The measurement antenna is linearly polarized so you can measure horizontal and vertical field separately to determine the circularity of UHF antennas or the optimal position of UHF tags in a given situation.

Applications

- Identify active UHF antennas (Software Debugging)
- Measure field strength for optimized tag positioning
- Finding unwanted UHF fields (false reads)



Technical Specification

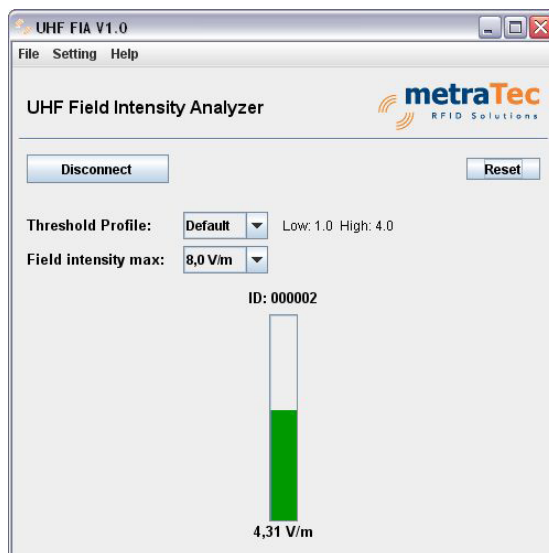
Operating Principle	UHF Field Detector with 2.4 GHz RF Modem
Antenna UHF Detektor	Linear polarized 868 MHz Antenna
Dynamic Range	60dB
Display	2x configurable threshold LEDs
RF Modem	IEEE 802.15.4 Modem with proprietary protocol
Frequency RF Modem	2.4 GHz
Channels RF Modem	Channels 11 - 26 supported
Max. RF Power	4 dBm (approx. 50m range line of sight)
Antenna RF Modem	Onboard Chip Antenna
Power Supply	2x AAA Batteries

At a Glance

- Measures UHF Field Strength
- Direct Feedback via LED
- Sends data for further analysis to a PC using ZigBee Modem

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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