

RFID Power Mapper

The Power Mapper is a worldwide battery free UHF RFID power meter.

What can it do:

- Accurately maps RFID field pattern up to 15 meters range.
- Shows nulls and dead spots in RF signal.
- Detect which antenna is transmitting.
- Shows approximate RADIATED POWER.
- Tests polarisation of antennas. Linear, circular and cross polarised
- Ideal for beam angle measurements.
- Pulses to show notify time and other transmit interruptions.
- Oscilloscope output to show modulation.
- Detect cable faults and bad connections.

Features & Benefits:

- No Battery, Uses RF power
- Pocket size
- With 12dB attenuation switch.
- Wide frequency range
- Works with all known European and US UHF RFID Readers.

Specification:

- Frequency range 850MHz to 920 MHz Europe and USA included
- Tested with Dipole, linear, circular patch and cross polarised antennas
- Tested for use to EN302 208 at 865MHz to 868MHz
- Tested for use to EN300 220 at 869.5 MHz
- Power level range 10mW to 4W EIRP
- Battery Life, Infinite. (runs on transmitter RF power)
- CE marked.
- The Power-Mapper contains no banned substances RoHs.
- The Power-Mapper does not transmit any RF signals.
- Height 105.0mm, Width 70mm, Depth 45mm

Basic Instructions:

Hold the Power-Mapper between your finger and thumb then move the meter slowly around the area you want to test. In general RFID tags take about 1uW to power up, so when mapping the RF field a reading on the power-Mapper of less than 1 indicates that a standard Gen 2 tag may not be readable. Rotate the power meter 90 Degrees to measure power in the horizontal polarisation plane. The Power-Mapper V3 has a 12dB attenuator switch for antenna testing and close to antenna measurements. This meter is very sensitive and is capable of showing clearly the constructive and destructive interference patterns caused by ground bounce or metal objects within the RFID field. To test circular polarised antennas for dead spots, use the meter horizontally at 3 to 5 metres range, the dead zone can then be measured. With the 12dB attenuator Switched in, a 2W ERP or a 4W EIRP transition will give full scale at a range of approximately 1 Metre. An Oscilloscope can be connected across the data out terminals to show the signal modulation. Safety Regulations state that you should not work within 25cm of a 2W ERP transmission for long periods.

RoHs compliant. EN60950 safety compliant.

