

ePix Ltd. Power-Mapper 866MHz

The Power-Mapper is a 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
- Simple to use
- Wide frequency range
- Works with all known European and US UHF RFID Readers.
- Range can be adjusted using external resistor.



Specification:

- Frequency range 850MHz to 920 MHz
- 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.

Use a resistor between the two terminals to calibrate your meter for close proximity 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.

Test circular polarised antennas for dead spots using the meter horizontally at 3 to 5 metres range the normal dead zone can be measured..

An Oscilloscope can be connected across the data out terminals to show the signal modulation.

Also available from ePix Ltd is the Power-Ranger. A pocket size indicator for simple quick antenna set-up and testing; five meter range. Usually left at every installation for antenna and system verification.

Safety Regulations state that you should not work within 25cm of a 2W ERP transmission.

The Power Ranger can be returned to ePix Ltd for disposal. RoHs compliant. EN60950 safety compliant.