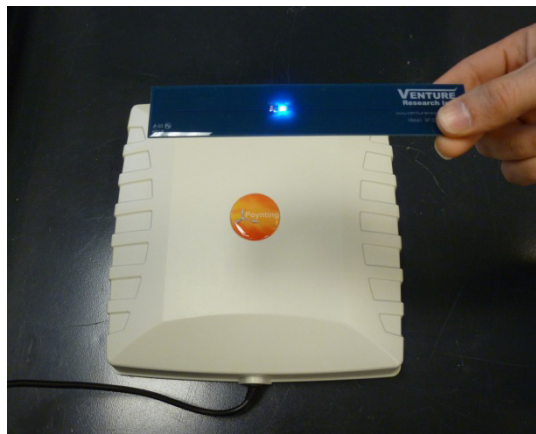


## Using the Venture Research RFID Power Sensor

The Venture Research RFID Power Sensor is a simple  $\frac{1}{4}$  wave dipole power sensor that illuminates an LED relative to the amount of energy it receives. The antenna is tuned to best perform around the 915 Mhz band typical in UHF RFID applications. Along with power sensing the unit can also be used to demonstrate and test for polarization of antennas. Note that the sensor only shows RF energy, it is not an RFID tag and therefore cannot be read by an RFID reader.

To use the sensor, pick up the sensor with the thumb over the Venture Research logo so as to not touch the antenna element. By placing the sensor near a radiating antenna in the UHF band it will show relative field strength being transmitted by the reader / antenna.



**Horizontal Sensing**

The unit can also be used to verify circularly polarized antennas and will show the orientation of linearly polarized antennas. By placing the sensor in the horizontal direction as shown above and then in the vertical direction as shown below, it if illuminates in both directions, it is circularly polarized. If it illuminates in only one direction, then it is linearly polarized in the plane that the sensor illuminates.



**Vertical Sensing**

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