

## External Antennae

The GP-8 can drive an external antennae for greatly increased read range. An external tuning capacitor is also required. Ranges in excess of 30cm can be obtained with a suitable antennae and capacitor. The experimental antennae shown below gave 30cm range at 12v and 70mA and 22cm range at 5v and 35mA. The antennae tuned with a 0.1uF capacitor and 17.3 - 17.5 uH inductance. Note that the best read ranges are found when the inductance is made slightly more than required for resonance.

### Experimental antennae

The antennae described below is a suggested starting point for OEM use. Where possible use heavy gage enameled wire. A range of over 30cm was obtained using the test below antennae. The inductance should be approximately 17.3 - 17.5 uH.

