

# PROBES

## MAGNETIC PICK-UP

Build Your Own AC Gaussmeter



Want parts to build your own gauss meter? Here is a nice AC magnetic field probe. It generates an AC voltage when exposed to AC magnetic fields. Although we do not know how the output from this unit varies with frequency, we do know that the greater the magnetic field, the higher the voltage generated (at 60 Hz, it produces about 1 mV per 20 mG). It can be connected to a DMM, analog voltmeter, oscilloscope, audio amplifier, or recording device. Connect 3 of them in series and create a 3-axis unit. It is quite small: only 0.7" long x 0.7" diameter, with a removable rubber suction cup attached. Has 36" lead and 1/8" (3.5mm) mono plug. (Cat. #R175) ..... \$4.95

## PICK-UP EXTENSION CORDS

Want to place your Magnetic Pick-ups in remote locations? Economical cord is a full **25 feet long**. 3.5mm mono male to 3.5mm mono female. Daisy chain several together to achieve longer runs. Use Audio Amplifier (#R175-A) to boost weak signals over long lengths. (Cat. #R175-ext) ..... \$9.95



## TELESCOPING ANTENNA

Good general purpose RF antenna. 5¼ inch collapsed, extends to 20 inches. BNC connection. Can be used with:

- [Digi-Field Meter](#)
- [Broadcast Frequency Counter](#)
- [Low Frequency Counter](#)
- [Digital Multimeters](#)
- Oscilloscopes and many other devices.

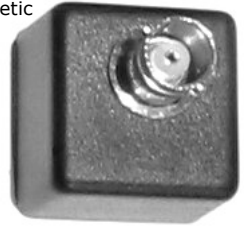


**Telescoping Antenna (Cat. #R128-T) ..... \$15.00**

## VLF MAGNETIC PROBE

5 kHz - 1 MHz

These passive magnetic field sensors output AC voltage corresponding to the AC magnetic field strength. The frequency of the AC output voltage is the same as the frequency of the magnetic field. Single-axis, so it responds to fields parallel to the sensor axis. The sensor orientation shows the magnetic field polarization. No battery or power supply is needed.



Connect to a display instrument (not included) such as AC voltmeter, oscilloscope or spectrum analyzer to display the output AC voltage and waveform information. These sensors have no minimum measurable field strength, so the sensitivity will depend on your display instrument. Maximum field: the sensor can be damaged above approximately 50 Volts output. Sensor includes operating instructions.

### Frequency Range:

For 5 kHz - 1 MHz, the sensor output voltage is at least 70% of the magnetic field strength in Gauss (Volts/Gauss > 0.7). Sensors can also be used below this frequency range, but will have lower output voltage.

### Calibration:

Each individual sensor is tested and recorded to ensure NIST traceable accuracy. Individual calibration data table is delivered with each sensor.

Rectangular 1"x1"x0.8" and has a BNC(♀) output connector on the case. Weighs only 1 oz (30 g).

**VLF Magnetic Probe (Cat. #R180) ..... \$150.00**

### Cable Accessories:

**BNC to Dual Banana Cable (3 ft) (Cat. #R128) ..... \$14.95**

**BNC to 3.5mm mono plug cable (3 ft) (Cat. #R128-3.5) ..... \$14.95**

Toll free in USA: 1-888-537-7363  
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