

# SP-1 Probe



The Model SP-1 probe was designed for contact measurement with the AED-2000. It has a versatile set of threaded attachments that allow it to adapt to a number of applications.

It comes in two versions. The **SP-1L** is a low frequency model with a 40 kHz resonant crystal and 40 dB integral preamp. Filtering design allows this probe to be used down to 1 kHz, for applications in water leak detection and insect pest detection in wood products and soils. The most prominent use of this probe model is for termite detection in the home, in outside wooden structures, and in live trees.

The high frequency Model **SP-1H** is designed for applications >100 kHz, such as leak detection in high pressure piping sys-

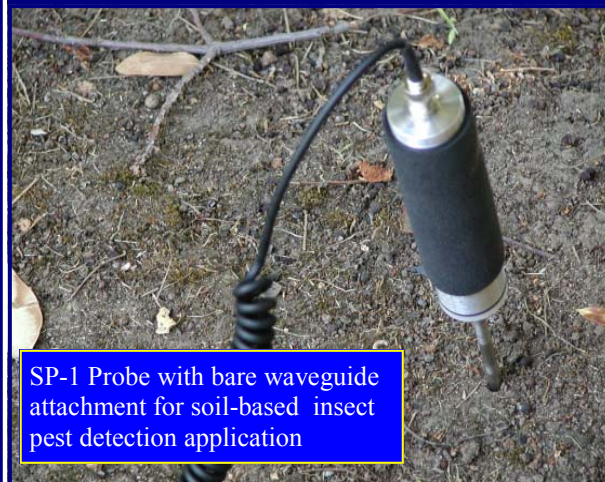
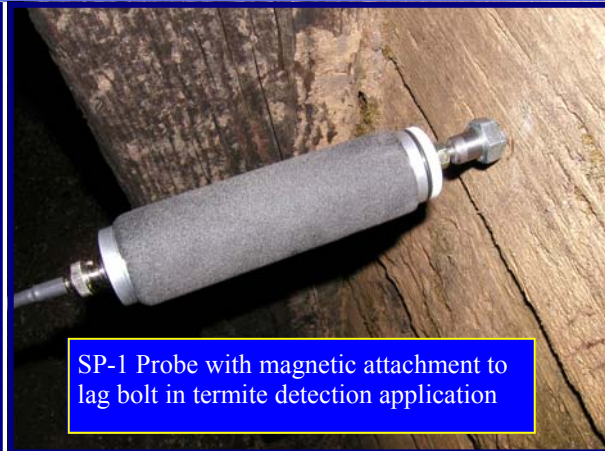
tems, valve leak detection, machinery health monitoring, and partial discharge detection in transformers.

A convenient set of threaded attachments is available:

- A high force NeBFe magnet for attachment to ferromagnetic structures
- A 1/4" diam stainless steel bare probe for surface contact, or insertion (wood and soil)
- A 1/4" diam stainless steel rubber-coated probe for contact with soft materials, and to minimize the noise of surface contact in low frequency applications.

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## Specifications

### SP-1 Probe

- 6.75" L x 1.5" D (17 cm x 3.8 cm), with foam grip
- 9.1 oz (258 gms)
- **Model SP-1L** (low frequency design)
  - 40 kHz resonant frequency
  - 1-50 kHz bandwidth
  - 40 dB integral preamp, 50 ohm output
- **Model SP-1H** (high frequency design)
  - 110 kHz resonant frequency
  - 100-500 kHz bandwidth
  - 40 dB integral preamp, 50 ohm output
- Attachment stud 1/4" x 28 thread
- Connector BNC coax

### Attachments

- Model DMH-10, Neodymium pot magnet, 0.5" D x 0.5" L (13 mm x 13 mm), 1/4" x 28 thread, ~15 lbs force.
- Model WG-B6, stainless steel waveguide, bare, 6.4" L x 1/4" D (16.2 cm L x 6 mm D), 1/4" x 28 thread.
- Model WG-C6, same as WG-B6 with rubber tip coating.

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