

RF METERS FOR DIGITAL SIGNALS

ACOUSTIMETER

Self Contained and Packed with Features



Smart Meters

The Acoustimeter is a user-friendly accurate RF measurement instrument which provides LED light and LCD text displaying peak, peak hold, and average levels of radio frequency electromagnetic fields, covering the spectrum from TETRA all the way up to and beyond the 5.6 GHz WiFi and WiMax frequencies. It has a digital readout which is sensitive 0.02 V/m - 6.00 V/m and a sound output enabling you to hear the signal modulation. These features make the instrument the most useful one available to even those with severe electrosensitivity.

The Acoustimeter has been designed to enable you to make a quick and informed judgment regarding the level and nature of microwave signals in your environment. It is a broadband instrument that accurately measures the totality of the radiation in the range **200 MHz to about 8000 MHz** (8 GHz), which covers the frequencies used by most modern communication systems encountered in our everyday environment. The Acoustimeter was designed using the experience gained from many years of practical RF and microwave measurements. The readings are shown on both an LCD display and two series of graduated LED lights. The LEDs update rapidly, and allow you to quickly gauge the levels in an area and find any hot-spots. The LCD display offers high accuracy with a lower update speed, giving you time to take note of the readings. It also has a speaker (and audio output socket for headphones or to feed to an audio recorder), allowing you to determine, with a small amount of practice, what type of device is creating the levels that are present. The sounds made by different transmitters can change with time, so these are meant as a rough guide only. If you are subject to a number of sources of RF, the sounds may intermingle and be less easily identified. The internal PCB antenna is at the top rear of the case. Signals are best measured with the source behind the instrument, but also quite good with the source to one or other side (particularly the left side away from the switches and volume control). It under reads if the source is in front of the meter as the LCD display acts as an RF screen. If you need a carry case, it can be ordered separately. 2 yr mfr wty.

Technical specifications

Two line LCD displaying actual levels:

- » Peak exposure levels in V/m
- » Peak hold levels in V/m
- » Average exposure levels in $\mu\text{W}/\text{m}^2$

Two lines of LEDS displaying actual levels:

- » Peak exposure levels in V/m
- » Average exposure levels in $\mu\text{W}/\text{m}^2$

Measurement range: 200 - 8000 MHz ± 3 dB

Sensitivity* (Peak Display): 0.02 V/m - 6.00 V/m

Sensitivity* (Average Display): 1 $\mu\text{W}/\text{m}^2$ - 100,000 $\mu\text{W}/\text{m}^2$

Pulsing signal may be heard through the internal speaker

Power source: 2x AA Alkaline or Rechargeable (1.2 - 1.5V)

Power draw: 105 mA at 3 V

Battery life: 20 hours

- » Typically 15 hours on two new 1500 mAh AA alkaline cells and
- » Typically 25 hours on two charged 2700 mAh NIMH rechargeable cells

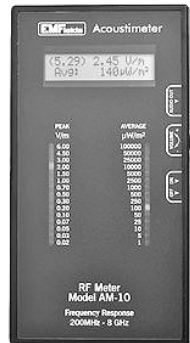
Size (mm): 190 x 102 x 33 (LxWxD)

Weight: 280g, excluding batteries

Acoustimeter (Cat. #Q139) \$399.95



Has Sound



FAQ: What Exposure Limits Do You Recommend?

Ask this question to 100 experts and you will get 100 different answers. Here are the prolonged exposure limits we recommend for the general public:

AC Magnetic fields: 2.5 mG
AC Electric Fields: 50 V/m

Radiofrequency Fields: 600 mV/m
Body Voltage: 50mV

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