

AC Milligauss Meter Model UHS2

(AlphaLab, USA)



A digital gaussmeter for precise measurement of AC magnetic field.

Available Options:

Output Jack; Hard Carrying Case; Detachable Rubber Boot.

Available Data Acquisition Option:

[Data Logging USB Stick](#) Logs data from the meter. The stick must be connected to a computer to operate. Output jack included.

UHS2 Output Jack Description:

The optional output is a 1/8" (3.5 mm) phone jack (mono), which is similar to the jack for headphones. A plug is also supplied which has two bare wires to connect to your data acquisition system or oscilloscope. The output is a slowly-varying signal (1/4 second response time) proportional to whatever the display is reading at the time. It is positive only. An output of 2 V corresponds to full scale (1999.99 milligauss) and 0 mV corresponds to 0 field.

Product Description:

This meter measures AC magnetic field in a wide frequency range of 13 Hz to 75 kHz (75,000 Hz). The frequencies include most ELF (that is,

frequencies below 1 kHz) and VLF (above 1 kHz) magnetic fields. The meter measures the true 3-axis magnitude of the AC field. Two other more specialized measurements can also be performed: 3-axis VLF-only (1kHz - 75 kHz) to measure the strength of higher-frequency fields, and 1-axis full bandwidth (13 Hz - 75 kHz) to determine the principal direction of the AC magnetic field.

Most measurements will be performed with the knob turned to 3-Axis ELF+VLF. This setting is for measurement of true magnitude of magnetic field at the widest range of frequencies (ELF + VLF).