

STETZERIZER™ Microsurge Meters

Designed to measure Home, School and Office Power Quality

MICROSURGE METER OPERATING INSTRUCTIONS



The intellectual property behind the STETZERIZER™ Microsurge Meter belongs to; Professor Martin Graham.

The Microsurge Meter:

- Works for 60Hz/110 Volt North American and 50Hz/240 Volt European systems.
- LCD display reads the change in Volts per second present, which is an approximation for the high frequency energy. High frequencies are the ones most harmful to equipment, animals, plants and humans.
- The good, marginal and undesirable ranges of Meter readings are conveniently listed on the back of the Microsurge Meter. Research shows that the best health results are achieved when the number is below 30 GS units.
- Electro-sensitive people have reported sensitivities with readings as low as 27 on the Microsurge Meter. However, medium or even low Microsurge Meter readings should not be interpreted as a guarantee that there is no harmful health impact. Only a medical expert can determine that. Caution is required as some harmful health effects of high frequency energy on humans appear to be cumulative, and possibly non-reversible.

Science is inconclusive in this area, although the body of empirical evidence available for guidance continues to expand and stabilise.

Microsurge Meter Design Criteria

Microsurge Meters were specifically designed as a companion to the STETZERIZER™ Filters (Graham-Stetzer Filters). The Meters measure the level of harmful electromagnetic "energy" present. Their primary use is as a guide to effective Filter installation.

Microsurge Meters are low cost, robust, and easy to use by non-technical people. The Meters were designed to measure harmonics and other high frequency "energy" present. These are the frequencies most detrimental to human health. The Meters effectively ignore the effects of 50/60Hz power and other lower, less harmful frequencies. Specifically, the Meter measures the average magnitude of the changing voltage as a function of time (dV/dt). This naturally emphasises transients and other high frequency phenomena that change rapidly with time. The measurements



of dV/dt read by the Meter are defined as GS (Graham-Stetzer) units as no standard term is available. The GS units are effectively a measure of 'harmful electromagnetic energy' or 'dirty electricity'.

Using the Microsurge Meter for a Typical Home Installation

Microsurge Meters measure the levels of safe, borderline, or dangerous levels of 'energy' present. These levels are conveniently shown on the back of the Meter for

FOR MORE INFORMATION GO TO
WWW.GSFILTERS.EU OR
[EMAIL SUPPORT@STETZERIZER.EU](mailto:SUPPORT@STETZERIZER.EU)

GS Filters BV
P.O. Box 95553
2509 CN The Hague
The Netherlands

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reference. These levels have been developed through research (much of it in Russia and neighbouring countries) and confirmed by experience in North America.

Starting from points that typically have the highest readings such as the power input panel, computers and televisions, the Meter is used to measure the initial levels of GS energy and reduction as Filters are added. Once the GS levels are acceptable at one location, the process should be repeated at the next location. After the installation of the Filters is complete, a final confirmation of the GS levels should be performed throughout the home, school or office.

Meter Specifications

- 69mm x 27mm x 110mm
- Works for 60Hz/110 Volt North American and 50Hz/240 Volt European systems
- Encased in an off-white plastic covering that fits naturally with home, school or office decor
- Simply plug into a normal electrical outlet to use

Please also refer to the STETZERIZER™ Filter Installation Instructions sheet.



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