

Frequency-selective field strength measurements with “Spatial Averaging” and continuous real-time recording

SRM-3000 from Narda Safety Test Solutions now with spatial and real-time evaluation functions

Pfullingen, November 28, 2006 – Narda Safety Test Solutions has added new spatial and time analysis functions to the Selective Radiation Meter SRM-3000 for safety measurements in electromagnetic fields. “Spatial Averaging” allows automatic averaging of measured values over several different points or paths within a space. “Time Analysis” now provides a graphical display and timer-controlled recording of measured values for long-term monitoring.

The standards and regulations governing human safety in high frequency radiation specify limit values that normally have to be averaged over the entire volume of the human body. Fields can vary widely within a room or space, particularly in close proximity to antenna masts such as those used for mobile telecommunications services. For this reason, IEEE C95.1-1999 requires measurements equally-spaced by 20 cm from 0 cm (ground level) up to a height of 200 cm. Other standards, for example the Canadian Safety Code 6, require two-dimensional measurements in the vertical and horizontal planes. The revised ECC Recommendation (02)04 of October 2003 proposes measurements at heights of 1.1 m, 1.5 m and 1.7 m above ground level.

The new “Spatial Averaging” function of the SRM 3000 simplifies all such measurements. It records measurements made at various points or along a path in the room and determines the root mean square (RMS) value from these results, i.e. the average power level. The result can be read off directly from the display.

The new “Time Analysis” operating mode allows selective measurement at a defined center frequency (F_{cent}) in order to monitor the field strength of a GSM or UMTS channel, for example. The SRM 3000 records the radiation power level in real time, without interrupting the recording of measured values when calculating the results. The resolution bandwidth (RBW) can be selected to match the

telecommunications channel bandwidth, and averaging over a user-defined time period, e.g. the six minutes required by many standards, is also possible. The device displays the results numerically and graphically.

The device can also be programmed directly for long-term monitoring using the new "Time Controlled Storing" function. An external PC is not needed for this.

All these features are available now as options.

The above text and a press photo can also be found at:

www.narda-sts.de/en/produktliteratur/presse.htm

Further information from: www.narda-sts.com

Narda Safety Test Solutions, with headquarters at Pfullingen in Germany, is the worldwide market leader in professional measurement of electromagnetic fields. Narda Safety Test Solutions offers re-settable calibrated radiation measuring devices for workplace safety, environmental protection and research. These meet every demand, in terms of user-friendliness and long working life. The operations group takes into account the current legal situation and official threshold values when developing its products. Narda Safety Test Solutions offers a complete spectrum of devices, ranging from small, personal monitors and analyzers for all frequency ranges to software solutions and training. The state-of-the-art calibration laboratory in Pfullingen tests and calibrates all the company's own devices and probes for measuring electrical, magnetic and electromagnetic fields.

Narda Safety Test Solutions is owned by **L-3 Communications**, New York. L-3 Communications is a leading supplier of security communications systems and products, avionics and marine systems, radio relay components and telemetry, measurement technology, space and radio technology. L-3 Communications' customers include the U.S. Defense Department, selected intelligence agencies of the U.S. government, foreign governments, major suppliers to the aerospace and defense industries as well as civilian telecommunications companies and operators of cellular networks.

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