

Selective measurement of electromagnetic fields from 9 kHz to 6 GHz

**New Selective Radiation Meter
from Narda Safety Test Solutions
especially for EMF and EMCE measurements**

Pfullingen, 27th July 2009 – At A+A, Narda Safety Test Solutions is presenting a new frequency-selective measuring set for environmental and safety measurements in electromagnetic fields. With its isotropic (non-directional) measuring antennas, it covers the entire frequency range from 9 kHz to 6 GHz, from long wave up to the latest mobile phone services.

The Selective Radiation Meter SRM-3006 from Narda Safety Test Solutions has been specially designed for environmental and safety measurements in electromagnetic fields. With its isotropic measuring antennas, it covers the entire frequency range from 9 kHz to 6 GHz. Its range of applications therefore runs from safety investigations in the near field range of long wave transmitters, through measurements on radio and TV broadcasters and right up to exposure level measurements on the latest generation of mobile communications services.

The combination of measuring set and antenna is designed for outdoor use: robust, splash-proof housing, batteries that can be replaced on-site, results stored with date, time and GPS coordinates, and a voice recorder for spoken comments all simplify everyday tasks in the field or on antenna towers. Pre-programmed test routines prevent mistakes and save time and money.

Tailored operating modes support the special measurement tasks. “Safety Evaluation” mode automatically summarizes the selectively measured values as individual and overall results for separate channels, for an entire service or for one provider, as well as for the overall exposure level at the location. Another operating mode records the real-time variation in field exposure, for instance. The instrument displays all results in physical units or directly as a percentage of the

permitted limit value. The weighting curves for all current safety standards are stored in the instrument for this purpose.

All measuring instruments and antennas are calibrated, traceable to national and international standards, so they deliver reliable and reproducible results.

Narda Safety Test Solutions at the A+A 2009 trade fair (Düsseldorf, November 3-6): Hall 6, Stand C01

This text and a press image are also available from
www.narda-sts.de > Press

Narda Safety Test Solutions is a global leader in the development and production of measuring equipment for safety in electric, magnetic, and electromagnetic fields (EMF). Narda is a highly innovative company, owning around 95% of all the published patents for measuring such fields. The product portfolio includes broadband and frequency-selective measuring devices, monitors for complete wide area coverage, or that can be worn on the body for personal safety. Under the PMM brand, they offer instruments for assessing the electromagnetic compatibility (EMC) of devices. The range of services includes servicing, calibrating, and training programs.

Narda Safety Test Solutions has development and production facilities at three locations: Hauppauge, Long Island / USA, Pfullingen / Germany and Cisano / Italy. Closeness to customers is guaranteed by a worldwide network of representatives.

Narda Safety Test Solutions is part of **L-3 Communications**, New York.

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The **Selective Radiation Meter SRM-3006** from Narda Safety Test Solutions has been specially designed for environmental and safety measurements in electromagnetic fields. The combination of basic unit and measuring antenna is suitable for outdoor use, thanks to its robust, splash-proof casing. The batteries can be replaced in situ, allowing practically unlimited operation without AC line power. Automatic storage of measurement data with the date, time, and GPS coordinates ensures unambiguous correlation between the measurement task, location, and results, and a voice recorder saves spoken comments.

Isotropic measuring antennas give correct results regardless of the direction of the field radiation, and are ideal for rapid measurements. The SRM-3006 covers the entire frequency range from 9 kHz to 6 GHz with three antennas:

- Isotropic E-field antenna, **800 MHz to 6 GHz** for measuring the electric fields produced by the latest wireless technologies
- Isotropic E-field antenna, **27 MHz to 3 GHz** for measuring electric fields, e.g. from mobile communications services
- Isotropic H-field antenna, **9 kHz to 250 MHz** for measuring the magnetic near field region of radio / TV transmitters and industrial equipment

In addition to these antennas, Narda also provides a range of single-axis E-field and H-field measuring antennas for measurements of the highest precision. All measuring instruments and antennas are calibrated, traceable to national and international standards, so they deliver reliable and reproducible results.

Tailored operating modes support the special measurement tasks. “Safety Evaluation” mode automatically summarizes the selectively measured values as individual and overall results for separate channels, for an entire service or for one provider, as well as for the overall exposure level at the location. Another operating mode records the real-time variation in field exposure, for instance. The instrument displays all results in physical units such as field strength (V/m, A/m) or power density (W/m^2 , mW/cm^2), or as logarithmic units (dB μ V), or directly as a percentage of the permitted limit value. The weighting curves for all current safety standards are stored in the instrument for this purpose.

Pre-programmed measurement routines save time and money: they simplify the task of on-site measurement, prevent operating errors, and ensure comparable results. The measurement routines can be generated and uploaded to the measuring instrument using PC software. The PC software can also be used to recall the results and process them into customer-specific measurement reports, or simply to manage and archive them.

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