

Industrial plant: Standard-compliant measurement of electric and magnetic fields

**The Narda Industrial Field Meters NIM-511 and NIM-513
measure radiation emitted by equipment
that uses industrial frequencies**

Pfullingen, December 04, 2012 – Narda Safety Test Solutions presents two new meters for equipment that operates using industrial frequencies. The devices make standard-compliant measurements of electric and magnetic field strength to determine the degree of exposure to electromagnetic radiation and demonstrate adherence to human safety regulations.

The Narda Industrial Field Meters NIM-511 and NIM-513 are complete hand-held measuring systems consisting of a basic unit and a measuring probe equipped with electric and magnetic field sensors. They provide an inexpensive solution for the task of checking the compliance of industrial plant with regulations and limit values for electromagnetic radiation.

The **NIM-511** sensors cover a frequency range from 300 kHz to 100 MHz and are balanced during calibration at the 13.56 MHz ISM frequency often used in semiconductor manufacturing, for example.

The **NIM-513** sensors cover the range 10 MHz to 42 MHz and are balanced during calibration at the 27.12 MHz ISM frequency – the frequency most often used for heat welding equipment and induction ovens.

True to task, the NIM devices are compact, weigh just 600 grams, and are easy to use. Since the probes measure the electric and magnetic fields at the same time, there is no need to switch probes, saving a lot of time when making measurements. Automatic measurement range selection, auto-zeroing, clear operating mode display, and a digital result readout make for reliable results and practically eliminate mistakes in measurement.

Background

Most high-power industrial equipment uses frequencies reserved for industrial, scientific, and medical use (ISM). In particular, the ISM frequencies 27.12 MHz and 13.56 MHz are widely used. High frequency radiation can cause a temperature increase in the human body to the point where the body temperature can no longer be effectively regulated. For this reason, the International Commission for Non-Ionizing Radiation Protection (ICNIRP) has set limit values for radiation exposure, which have been incorporated into local standards and workplace safety regulations in most countries. To demonstrate compliance with these standards, the electric field component as well as the magnetic field component must be measured for frequencies below 300 MHz. The plant operator must provide this evidence.

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Narda is a leading supplier of measuring equipment in the RF safety, EMC and RF testing sectors. The RF safety product spectrum includes wideband and frequency-selective measuring devices, and monitors for wide area coverage or which can be worn on the body for personal safety. Under the PMM brand, Narda offers instruments for determining the electromagnetic compatibility (EMC) of devices. The RF testing sector covers analyzers and instruments for measuring and identifying radio sources. The range of services includes servicing, calibration, and training programs. The company operates a management system complying with ISO 9001/2008 and ISO/IEC 17025.

Narda has development and production facilities at three locations: Hauppauge, Long Island / USA, Pfullingen / Germany and Cisano / Italy and has its own representative in Beijing / China. A worldwide network of representatives guarantees closeness to customers.

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

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