

## **Directional antenna for tracing interference in the very low frequency region**

**New loop antenna extends range of application for the Interference and Direction Analyzer IDA-3106 right down to 9 kHz**

**Pfullingen, February 19, 2013 – Narda Safety Test Solutions has extended the range of application for its Interference and Direction Analyzer down to very low frequencies with a new loop antenna. The antenna is particularly suitable for detecting interference caused by switching power supplies or data transmission over electricity supply lines.**

The new loop antenna for the Interference and Direction Analyzer IDA-3106 covers a frequency range from 9 kHz up to 30 MHz. Its typical antenna factor of 47.5 dB(1/m) at 1 MHz gives it unusually high sensitivity. This makes it particularly suitable for tracing defective or poorly screened switched mode power supplies or electrical controls that generate interference fields, for identifying interference due to data transmissions made using the power line carrier technique, or for demonstrating interference with other signals in the very low frequency range (VLF), e.g. using the time signal of the DCF77 transmitter.

Along with the new antenna, Narda also offers an improved antenna handle with a built-in, switchable preamplifier that covers the extended frequency range and increases sensitivity by an additional 20 dB if required.

Together with the antennas already available, the Interference and Direction Analyzer IDA-3106 can now cover the frequency range from 9 kHz to 6 GHz without any breaks.

### **IDA-3106 profile**

The Interference and Direction Analyzer IDA-3106 was developed for identifying and localizing electromagnetic signal sources. Its applications cover the areas of telecommunications and security. Intrinsic as well as external interference needs to be traced and eliminated in communications.

When it comes to security, the device can trace unknown sources and identify potential dangers. On its own, the IDA can determine the direction of the source on the basis of a horizontal scan and shows the bearing on a polar diagram. The IDA calculates the position of the interference source from several bearing results and displays it automatically. You can optionally display freely available electronic maps, so that the source can be traced right down to its location in a particular street, similar to a navigation system. The IDA provides a room plan that can be edited to enable localization within a building, e.g. in a conference room.

The basis for finding the location of an interference source is provided by a GPS receiver in the measuring set and the electronic compass in the antenna handle, which determine the direction, elevation and polarization. Antennas optimized for different frequency ranges are available; these can be attached horizontally or vertically to an ergonomically designed handle.

The IDA-3106 Basic Unit is a hand-held device for on-site use that weighs less than three kilograms, including battery. The antenna and handle together weigh under one kilogram, as the power supply is from the Basic Unit. The battery can be hot-swapped without interrupting operation.

You can also find this text along with a press image and further information under [www.narda-ida.com](http://www.narda-ida.com) > Press

**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.

**For more information, contact:**

**Public Relations Partners GmbH**

Kristen Prochnow / Matthias Knotzer  
Bleichstr. 5  
D-61476 Kronberg bei Frankfurt  
Tel.: +49 6173 9267 32  
Fax: +49 6173 9267 67  
E-mail: [prochnow@prpkronberg.com](mailto:prochnow@prpkronberg.com)  
[knotzer@prpkronberg.com](mailto:knotzer@prpkronberg.com)  
<http://www.prpkronberg.com>

**Narda Safety Test Solutions GmbH**

Sandwiesenstr. 7  
D-72793 Pfullingen  
Tel.: +49 7121 9732 0  
Fax :+49 7121 9732 790  
E-mail: [support@narda-sts.de](mailto:support@narda-sts.de)  
<http://www.narda-test-solutions.de>  
<http://www.narda-sts.de>

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