

*Press release*

*For immediate publication*

*– Short version –*

## **Feeling safe in EMF pollution**

Pfullingen, September 29, 2016 – Electromagnetic fields (EMF) are an ever-present part of our environment. In contrast with naturally occurring radiation, man-made sources of EMF provoke increasing public discussion. Even though the overall field strengths encountered in the domestic and public environment are well below the stringent limit values, the idea that EMF pollution somehow is damaging to health persists. Narda Safety Test Solutions (STS) seeks to counter this with sophisticated measuring equipment and more than 80 years experience in this field. The high quality Area Monitors from the specialists in EMF deliver definitive proof that the limit values are being adhered to, wherever they are put to use. This provides certified safety with complete transparency at sensitive locations such as schools and public places, and particularly in the vicinity of mobile communications transmitting masts. The public often focus their health concerns on these all too visible base stations as the cellular networks become more and more densely packed. The principle is in many respects the same as the well known measurement of particulates and nitrous oxides found in many city centers. Sensitized by increasing traffic levels, the public has come to appreciate the sense of security and acceptance that results from being able to see the results of these measurements for themselves. The robust Area Monitors from Narda STS record the field data in accordance with the internationally recognized standards of the special UN organization, the ITU (International Telecommunication Union). If they detect a violation of the limit values, an alarm is triggered automatically. Once installed, these energy independent systems operate round the clock without any need for local intervention. They are equipped with a solar panel that provides continuous power and reserves of up to 80 days when the light levels are low. A cell phone modem enables wireless transmission of all the recorded values to an online platform that can be viewed by everyone at any time.

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– Long version –

## **Feeling safe in EMF pollution**

**The Area Monitors from Narda STS deliver the proof wherever it is necessary to show that limit values for electromagnetic fields are being adhered to without compromise – reliably, transparently, 24/7**

**Pfullingen, September 29, 2016 – Electromagnetic fields (EMF) are an ever-present part of our environment. They emanate from the earth's magnetic field, from lightning, and from the sun itself. In contrast with this naturally occurring radiation, man-made sources of artificial EMF provoke increasing public discussion, because this EMF pollution is thought to be damaging to health. Peace of mind can be achieved with measurement results, with transparent proof of round the clock EMF monitoring. The best example of this idea is the effective monitoring of particulate matter and nitrous oxides provided in many built up areas.**

Among the general public, the vague yet serious idea that EMF pollution is damaging to health has taken root. Right now, the question of the possible long term effects of low strength fields is under intensive investigation, and the whole subject has not yet been fully explained by any means. The continuing debate over the potential damage to health caused particularly by the increasing proportion of such fields due to cellular communications has left many people feeling unsure.

Generally speaking, from the purely scientific point of view, the electromagnetic fields present in the domestic and everyday environment are well within the stringent international limit values for protection from damaging environmental effects.

### **EMF smog is unsettling**

There are two main factors causing irritation among the public. Firstly, the news is full of reports that mobile communications networks are getting denser. Along with satellite, TV and radio transmitters, ever more powerful services, WLANs and local wireless networks are transmitting more and more data using radio frequencies. And

secondly, there seems to be a lack of information about the precise relationship between EMF and the biophysical or health effects.

### **Measurement brings certainty**

Narda Safety Test Solutions (STS) has developed high quality “Area Monitors” (AM) as a tailor made measurement solution for this problem. They provide results that are as precise as they are reliable. The specialists in EMF have put their unique expertise and more than 80 years of experience in this challenging field into the development of these systems. This is particularly important because the various EMF situations that arise each call for their own particular detailed knowledge of the distinctive technological characteristics. Only the practical application of this deep-rooted and specialist know how can eliminate specific sources of error and thus the possibility of distorted measurement results.

### **The principle: Particulate matter monitoring**

The idea behind the Area Monitors can be compared in many respects to the principle of particulate matter and nitrous oxides monitoring found in many high traffic city centers. Measuring stations set up in urban areas by environmental agencies (the UBA in Germany) measure the air quality several times each day. The latest results can then be viewed by the general public soon after the measurements on the agency website under the heading of current air quality in the form of color coded maps, graphs and tables.

The general public were already sensitized to the dangers to health caused by particulate matter by the end of the 1990s as a result of the increasing traffic levels and the latest medical knowledge. Over the years since then, they have come to appreciate the peace of mind and acceptance that ready access to such measurement results can bring. If the limit values are exceeded, the system immediately reacts with an alarm that can result in an appeal to reduce automobile use or even a local traffic ban.

### **Security and transparency at sensitive locations**

These robust Area Monitors monitor the field situation continuously, twenty four seven. This is particularly important for locations such as kindergartens, residential areas, or busy public spaces, perhaps close to cellular communications transmitter masts. Quite often it is these clearly visible high rise EMF sources that become the focus of public fears about invisible EMF pollution.

In addition to the local data recording, a cellular modem enables wireless transmission of the field strength values to an online platform, where they are permanently available in real time for viewing by the general public.

All field data is recorded in accordance with the internationally recognized standards of the special UN organization, the ITU (International Telecommunication Union). And if a violation of the limit values is actually detected, an alarm is triggered automatically.

### **Who uses these measuring stations?**

The operators of base stations, cellular network providers, as well as political and administrative representatives are at the forefront of those using Area Monitors. They are generally motivated by the desire to provide scientific evidence to reduce the doubt, skepticism and anxiety surrounding possible health dangers caused by electromagnetic fields. Providing regular records of EMF monitoring can also speed up approval for new installations. Routine reports from Area Monitor systems can provide peace of mind and lift this otherwise emotional debate to a more constructive level based on solid factual evidence.

A further important application for Area Monitors is for scientific studies, field trials and surveys performed by universities, colleges and other institutes in this comparatively new field.

### **Performance and equipment**

Narda offers two “Area Monitor” models: AMB-8059 (Broadband Application) and AMS-8061 (Selective Application). Taken together, they cover the entire range of applications, starting with check measurements close to high voltage lines and transformers, and right through to monitoring modern communications technology such as base stations, broadcast transmitters, and satellite stations.

Both Area Monitors can record and save EMF results round the clock, powered independently and without any need for local intervention, as they are equipped with a solar panel as power supply. The built in rechargeable battery gives reserves of up to 80 days when light levels are low.

Among other things, the “EMF Observatory” software allows users to call up all the field strength values from any location at any time using a PC. It is also possible to form an individual, wide area, web-based continuous monitoring system from several Area Monitors.

**Caption: Narda STS provides tailor made measuring instruments for continuous monitoring of sensitive locations: Independently powered “Area Monitors” record the local field situation 24/7, similar to the particulates and nitrous oxides monitors found in many urban areas.**

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This text and a press image can be found at

[www.narda-sts.com](http://www.narda-sts.com) > Company > 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.

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