



NBM-550  
NARDA  
BROADBAND  
FIELD METER  
P/N 2401/01  
S/N WW-5566  
Germany Y2006

**narda**  
Safety Test Solutions



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NSTS 12/10-E0230A

Technical improvements, errors and omissions excepted



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## UTILIZING HIGH FREQUENCIES

High frequency electromagnetic fields can be utilized in a variety of ways. They are the means of broadcasting radio and TV programs. They can be used to transmit voice signals for companies, rescue services, and private mobile communications. They can locate aircraft. They can weld, harden and dry materials in industrial production. They are useful tools in medical diagnostics and therapy. And, they heat up your food for you in the microwave oven.

## PROTECTION FROM HIGH FREQUENCIES

High frequency electromagnetic fields affect humans and the environment. National and international organizations have specified limit values to provide protection from dangerous exposure levels. The NBM-500 series of broadband field measuring sets from Narda Safety Test Solutions are designed to measure the exposure and show whether these limit values are being adhered to.

## SAFETY IN HIGH-FREQUENCY ELECTROMAGNETIC FIELDS



Example: Safety zones around mobile phone antennas. You can easily read off the field strength value, and the device warns you immediately if the limit value is exceeded.



Example: Safety when working on transmitter towers. The field strength can be checked with the probe before you approach the vicinity of the antenna.



Example: Public safety. The probes for the NBM series are so sensitive, that they can also easily detect the lower limit values set for the general public. Memory functions allow for long term monitoring.



Example: Industrial workplace safety. The NBM instruments are robust enough to withstand external stresses easily.

### **NBM-520: FOUR BUTTONS FOR RESULTS**

This handy device immediately displays the field strength in V/m, A/m, mW/cm<sup>2</sup>, W/m<sup>2</sup> – or directly as a percentage of the permitted limit level if you are using a shaped probe. It can be remote controlled or pre-configured for measurements from a PC via the optical interface.



### **NBM-550: THE EASY WAY TO FINE DETAIL**

This device offers additional convenience in the form of on-site evaluations and a memory for up to 5000 results, so you can analyze and document the results later.



### **THESE DEVICES GO ANYWHERE**

The NBM-500 series of broadband field measuring sets can cope with practically any environment. The casings are impact resistant, the probes are robust. The monochrome backlit LCD panels can be easily read in darkness or in sunlight. So, you get reliable results, even under difficult operating conditions.

### **PROBES FOR EVERY APPLICATION**

The NBM probes for electric and magnetic fields taken together cover a frequency range from 100 kHz to 60 GHz. Shaped probes weight the field strength automatically according to the safety standard.

All NBM probes are isotropic, i.e. they are non-directional. You don't have to worry about where the field is coming from; just point and measure.





## THE FAMILY: COMPLETELY COMPATIBLE

NBM basic units and probes are calibrated separately. The probe data is saved in an EPROM within the probe; the NBM basic unit takes this into account automatically. So you can combine any NBM basic unit with any NBM probe without any problems.

The NBM-520 can be controlled from an NBM-550, turning it into an extended probe "handle". In this way, you can get the probe into awkward corners but still read off the results comfortably from the display of the NBM-550 held in your hand.



## KNOW WHERE YOU STAND: GPS

The NBM-550 supplies a timestamp of the date and time automatically for every measured value. The GPS option provides the location coordinates. The GPS receiver is simply plugged onto the instrument and connected up via the USB socket.



## MAKE A RECORD OF WHAT YOU HAVE: PC SOFTWARE

NBM-TS, the PC software for the NBM family, is included with the instrument. Since the software is for the entire family, you just install it once, learn how to use it once, and then use it for everything.



You can record your own voice comments and replay them over the earphone. Each comment is stored with the corresponding measured value. It can be transferred to a PC with the results and played back using the PC's sound card.