NARDA EMF MONITORS

AMS-8061

Frequency selective monitoring by using a three axis isotropic antenna

- **Frequency range: 100 kHz to 6 GHz**
- Built in spectrum analyzer for monitoring up to 20 user defined frequency bands

Fully autonomous operation:

- Solar panel power supply
- Built-in mobile modem
- Automatic data transfer
- Daily reports, warnings & alarm massages via SMS
- On-board GPS
- Easy integration into test environments and Web Based Applications
- Low weight, robust design, compact size for indoor and outdoor operations

ITU-T K.83 compliant



Area Monitor AMS-8061 with Solar Panel

INTRODUCTION

Narda EMF Monitors are equipped with exclusive, state-of-the-art antennas having high sensitivity, accuracy and reliability. Their robust, uncluttered construction is perfect for long-term outdoor installation. The AMS-8061 combines a tried and tested measurement method with selective frequency range by using a three axis isotropic antenna.







Minimum outlay, maximum result

An EMF monitoring system is made up from a series of EMF monitors installed wherever the EMF presence needs to assessed continuously or by long term observation. The EMF monitors store the data and report them using conventional mobile data communication at set time intervals to a central unit, e.g. PC or data server. The system size can range from a single location up to countrywide coverage. Narda EMF monitors combine all the features that are essential for this purpose: autonomy, outdoor usability, mobility, robustness, and low operating costs.

You can be certain to find the ideal solution for every area of application with Narda. And you can depend on its reliability, thanks to our decades of experience coupled with cutting edge technology, backed up by our own certified calibration laboratory.

The AMS-8061

Its frequency selective application is the optimum solution for technical superiority from a tight budget. Narda EMF Monitors can do more than just record and save measurement values at a specific location. The AMS-8061 recognizes which frequency bands and services are responsible for a particular radiation.

For example, if several antennas are installed at one location. It is possible to distinguish between the various mobile services (GSM, UMTS, LTE) as well as between FM TV transmitters. By the help of the built in spectrum analyzer it is possible to determine for each individual EMF Source whether the corresponding emission limit values are being adhered to, in addition to evaluating the effects on the environment.

Narda EMF Monitors provide companies, authorities, and mobile telecoms providers with powerful instruments for performing long term on-vise evaluations for their clients.







Subject to change without notice



TECHNICAL SPECIFICATIONS

100 kHz to 6 GHz
Up to 20, individual start-stop frequency settings
Triaxial, isotropic antenna system
120 mm
50 Ohm, N-male
Multi-pin connector
0,01 to 200 V/m
> 60 dB in all settings of the attenuator
0.01 V/m (depending on the band setting)
435 V/m
0.01 V/m
≤ ±2 dB
≤ ±3 dB
< 2,5 dB to 3 GHz; < 3.5 dB to 6 GHz
> 50 dB, depending on settings
> 20 dB
2 years (recommended)
Down to 200 ms (depending on the band setting)
Automatic and settable (RBW, Hold time, Detector Pk-RMS, Attenuator, Zero Span)
Yes
V/m, % of preset limit of each band, A/m
AVG or RMS, Max value
Arithmetic or RMS; 1 – 15 minutes
1, 2, 6, 15 minutes
30 days @ 6 minutes storing rate; circular memory
SMS and/or data download for: field over limit, memory full, open case, temperature, humidity low battery, sensor failure, main unit failure.
FTP and CSD protocols via internal GSM/GPRS modem, Ethernet, RS-232 and USB link
FTP: automatic to server; CSD: automatic or manual to PC
Enabled for selected data transmission
SMS to 10 mobile phones (daily report of Max. EMF value, min. battery voltage)
Recording of battery voltage
Internal, logged in memory
Latitude, longitude
Internal real time clock
Remotely upgradable (FTP, CSD), Ethernet, RS232
RS-232, Ethernet and USB



AMS-8061 Selective Area Monitor

Specifications

Power supply	Solar panel 17.5 V, 2 x 40 W Backup sealed Pb rechargeable battery, 12 V External DC 12 V $-$ 3 A AC power supply and battery charger 100240 V, 50/60 Hz to 24 VDC, 1.25A
Autonomy with battery only	48 to 60 Hours, setting depending
Autonomy with solar panel	24 hours/365 days for PSH (Peak Sun Hours) >= 2; equal to >=2 kWh/m ² per day
Operating temperature	-10 °C to 55 °C
Humidity	< 29g/m ³ 93%
Wind speed	Max 150 km/h (unit must be installed according to instructions)
Protection grade	IP55
Radome dimensions (Ø x H)	250 x 740 mm
Base dimension (LxHxD)	660 x 95 x 600 mm
Pole (Ø x H)	60 x 760 mm
Weight approx.	34 kg
Country of origin	Italy

AMS-8061-SW-02 PC Software	
Main Functions and requirements	
Main functions	Local and remote communication for AMS-8061 setup and data downloading
	Data display/analysis in graphical and table format
	Vertical and horizontal zoom, linear and logarithmic graphs, marker
	Data export
PC minimum requirements	Operating system: Windows XP, Vista, Windows 7, Windows 8
	Minimum display resolution: 1024x768
	Internet connection for FTP remote communication mode (ports 20 and 21 for FTP data communication must be open)
	Line or GSM modem for CSD (Circuit Switched Data) remote communication mode



ORDERING INFORMATION

AMS-8061 set Remote Station	
Selective field area monitor station including tri-axial antenna, solar panel and back-up battery, support base and mast.	AMS-8061

Standard accessories supplied with AMS-8061:

- 2 cable ties
- Ballast bag
- Tools kit
- AC/DC power supply / battery charger
- RS-232 cable
- Ethernet cable
- Software CD
- Operating manual
- Certificate of calibration

Narda Safety Test Solutions GmbH

Sandwiesenstrasse 7 72793 Pfullingen, Germany Phone: +49 7121 9732-0 Fax: +49 7121 9732-790 E-Mail: support.narda-de@L-3com.com www.narda-sts.com

Narda Safety Test Solutions

435 Moreland Road Hauppauge, NY 11788, USA Phone: +1 631 231-1700 Fax: +1 631 231-1711 E-Mail: NardaSTS@L-3COM.com www.narda-sts.us

Narda Safety Test Solutions Srl

Via Leonardo da Vinci, 21/23 20090 Segrate (Milano) - Italy Phone: +39 02 26 998 71 Fax: +39 02 26 998 700 E-mail: nardait.support@L-3com.com www.narda-sts.it

® Names and Logo are registered trademarks of Narda Safety Test Solutions GmbH and L3 Communications Holdings, Inc. – Trade names are trademarks of the owners.

NSTS 1115 - E0317A

Subject to change without notice