

FREQUENCY SELECTIVE EMF AREA MONITOR

AMS-8060

Frequency selective monitoring and logging of environmental electromagnetic fields

- ▲ Up to 20 fully programmable frequency bands
- Real built-in spectrum analyser for better performance and flexibility
- 🔺 Built-in tri-axial antenna
- Broadband evaluation mode
- Automatic & manual data download to PC base station by internal GSM modem
- Dedicated acquisition software for data collection and analysis
- Passes warnings and alarms on to PC and mobile phones
- Standard GSM communication via modem and SMS



Area Monitor AMS 8060 with Solar Panel



APPLICATIONS

The wide range of electrical and electronic equipment present everywhere and the large number of wireless applications – from mobile communications to radio frequency identification (RFID), from electronic article surveillance (EAS) to broadcast and data transfer - represent the base for the presence of "uncontrolled" electromagnetic environments

The effects of non-ionising radiation (i.e., e.m. fields) are a very important and sensitive issue at an international level.

Several international agencies and standardisation bodies are regulating the matter, and many countries have already implemented local regulations for the control of electromagnetic fields.

The Selective Area Monitor AMS-8060 is the most advanced solution available to meet the growing demand for monitoring the e.m.f. both remotely and selectively, to avoid the continuous surveillance of sites by technical personnel.

The Area Monitor AMS-8060 is weatherproof, lightweight and can easily be installed either outdoors or indoors, through use of its specifically designed pole and base.

The Selective Area Monitor is the most suitable solution to check the protection limits set by the local regulations and to pick out the frequency of the sources of electromagnetic fields.

GENERAL DESCRIPTION

The AMS-8060 Selective Area Monitor is a complete and flexible measuring system for monitoring high-frequency fields ranging from 75 MHz up to 3 GHz, by means of the built-in, tri-axial antenna.

The unit includes also a powerful data logger, a power supply with backup battery, a GSM modem and antenna.

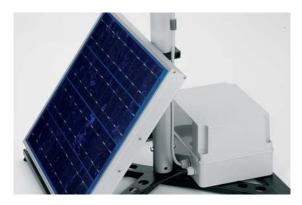
Its rugged construction allows its installation in the field, be it indoors or outdoors, while its compact size and limited weight allow the AMS-8060 to be easily relocated at any time.

Through user-friendly software the Selective Area Monitor can analyse up to 20 different portions (bands) of the spectrum, showing the EMF values of each band and the broadband value. All the measuring parameters can be easily set and modified in line with the different requirements of monitoring.

The measured data are logged in the AMS-8060 memory and can then be downloaded onto a PC, either remotely by GSM or locally by RS232. An automatic, continuous check system provide alarm signals should any abnormal situations occur.









THE AMS-8060 SW-02 SOFTWARE

A powerful, easy-to-use function programming and data analysis tool The Selective Area Monitoring programming software is a powerful tool specifically designed to deploy all the potentialities of the AMS-8060 hardware. All parameters of the station can be controlled, monitored, modified and set by using the software, either via remote (GSM) or direct (serial cable) connection.

Setting functions are: the frequency bands (Service Table), the time schedule (Selective Mode Timing), the measurements reading and recording, the data download at pre-set times, preparation of reports, checking the battery and the alarm status. Other common functions such as zoom, marker and others are also available.

	Enable Control on Lowest Frequency and Highest Frequer	icy
1	FM:75:M:108:M	
2	TV VHF;174;M;230;M	
3	TV UHF;470;M;862;M	
4	GSM 900 UL;880;M;915;M	
5	GSM 900 DL;925;M;960;M	
6	GSM 1900 UL;1850;M;1910;M	
7	GSM 1900 DL;1930;M;1990;M	~
Band Lowe		Remove Band

User-friendly Service table editing

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Display of amplitude vs. time



TECHNICAL SPECIFICATIONS

Specifications Antenna type Triaxial, electric field Frequency range 75 MHz to 3 GHz Oynamic range 0.01 to 300 V/m Overload 600 V/m Resolution 0.01 V/m Sensitivity 0.01 V/m (depending on the band setting) Sampling rate Down to 200 ms (depending on the band setting) Storing rate 5, 10, 15 and 30 seconds; 1, 2 and 6 minutes (depending on the band setting) Unit V/m Stored values AVG or RMS. Max value Memory size 288 kSyte Programmable frequency bands Up to 20 Max. logging before overwriting 50 days @ 6 min storing rate, 5 bands, no Max value Average and Average time Arithmetic or RMS; Average time from 10 sec. to 6 minutes Communication Internal Dual band GSM modern for SIM card (nor included) SIM card type Must be allowed for data transmission to or from mobile phones Download of measurement result from area monitor Automatic: the AMS-8060 calls the PC at scheduled times Manual: the PC operator calls the AMS-8060 Text file generation Generation of a .TXT file for every data dwnload SMS	AMS-8060 Selective Area Monitor	
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Operating temperature -10 °C to 50 °C		8 W with receiver ON and GSM off
Operating temperature -10 °C to 50 °C	Battery operating time	48 hours with Receiver ON
	Operating temperature	-10 °C to 50 °C
		IP54



Alarms	Field over limit, open case, overheating, low battery, receiver and antenna status.
Dimensions	Radome: 260 x 740 mm
Base	660 x 600 x 30
Battery pack	310 x 240 x 190
Solar panel	500 x 600 x 51
Pole	760 x 60 mm
Weight	Approx. 27kg (including battery pack and base)

AMB-8060-SW-02 PC Software (for Windows™ operating systems only)		
Functions and requirements		
Data download	Manual; Automatic by the AMS-8060 at scheduled times	
Alarms	Two programmable thresholds (attention and alarm) with notice	
	of trespassing from both ways (bottom-up and top-down)	
	Set-up of unlimited number of AMS-8060	
	Calculation of AVG; RMS; Max	
Functions	Vertical and Horizontal Zoom	
	Linear and Logarithmic graphs	
	Displaying of antenna and receiver calibration date, SW and HW rel., serial number	
	Battery voltage recording	

ORDERING INFORMATION

Remote Station			
Selective field area monitor station including tri-axial antenna, solar panel and back-up battery	AMS-8060		
Standard accessories supplied with AMS-8060:			

- Support base and mast
- 2 cable ties
- · Ballast bag
- Tools kit
- AC/DC power supply / battery charger
- RS-232 cable, 2 m
- Software diskette
- Operating manual
- Certificate of calibration

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