



FREQUENCY RANGE DC - 65GHz



TELECOMUNICAZIONI ALDENA SRL



ABM is a Broadband (wideband) Electromagnetic Field Meter.

ABM is designed to measure and control the field strengths in compliance with personal health and safety regulations/requirements in according to international limits (ICNIRP, IEC, IEEE).

ABM allows accurate measurements in real time with minimun effort for the operator.

FEATURES

- Broadband Measurement (DC 65 GHz)
- Interchangeable Plug&Play Probes
- High Measurement Stability
- High Dinamic Range
- Multi datalogger 24H (up to 2 million records)
- GPS receiver integrated
- Temperature & Humidity sensors available on board
- Compact and Light (300g only)
- Operation time > 5 days
- Rechargeable Battery
- Anti-shock protective cover

MAIN APPLICATIONS

- Telecommunication & Broadcast
- Military & Defence
- Aeronautical
- Railway
- Energy
- Automotive
- Industry
- Medical
- EMF Worker's safety

Measuring and monitoring field strengths in accordance with general safety regulations (EMF EU Directive 2013/35, FCC, SC6, CEI 211-6, CEI 211-7)

Establishing safe zones and demonstrate compliance with human safety international standard limit values (ICNIRP, IEC, IEEE)

Certification and audit of telecommunication services (Radio TV broadcast, GSM, 3G, LTE, 5G, WiFi, WiMax, IoT)

Assessment of military sites and personnel exposure protection.

Assessment of industrial processes for worker's exposure protection.

Measurements for medical devices that generate high-frequency radiation

Measuring field strength in TEM cells and absorber chambers to demonstrate electromagnetic compatibility (EMC)





Minimum health and



Specification are subject to change without notice



ABM (EMF Broadband Meter)

STANDARD CONFIGURATION

ABM meter	
USB optical converter	
Fiber-optic cable (10m)	
USB power supply	
USB cable for PC connection	
Software	
User manual	
Standard calibration certificate (or ISO 17025 on request)	
Protective bag	



Kit Example

COMPATIBLE FIELD PROBES

ALDENA provides a full range of E-Field/H-field probes covering different frequency ranges. Probes are plug&play, with individual calibarion certificate.

Example of probes



ACCESSORIES		
NMR-01	Fiberglass non magnetic and non reflective tripod. Extendable up to 2m.	FIE
NMR-UNI	Universal adapter of 1/4"	
NMR-ARJ	Positioner for H/V polarization	
NMR-TT-01	Telescopic support up to 4m	
NMR-BAG	Shoulder Bag for the NMR-01 tripod	

ABM SOFTWARE

The software used in conjunction with the ABM meter, provides an intuitive real-time management of the meter.





BERGLASS NON MAGNETIC AND NON REFLECTIVE TRIPOD

IEC61786 compliance Not affected by humidity

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TECHNICAL SPECIFICATIONS

FIELD MEASUREMENT Measurement range Frequency gamma Dynamic Resolution Measuring units	0,31000 V/m (depending on the probe) DC65GHz (depending on the probe) <110dB 0,1 V/mA/m V/m; kV/m; A/m; mT	ISO 9001 BUREAU VERITAS Certification ISO 9001 - Quality management
CALIBRATION Paramiters memorization Calibration interval	EEPROM 2 years (recommended)	
DISPLAY Type Updating time Settlement time Representation	Graphics 102x64 pixel 300 msec 1 sec (typical 90% of the measured value) Total value X;Y;Z; Isotropical	
KEYBOARD Alphanumeric	For setup and configuration	
ALARMS LED RGB APP Android	Flashing red light for settable limit exceeded in V/m (or A/m) Acustic alarm and vibration on limit excess	
DATALOGGER Working Storage interval Adquisition start Memory capacity	Minimum; Maximum; Media 10 s, 15 s, 30 s, 1 min, 2 min, 5 min, 6 min, 10 min, 30 min, 60 min Manual or scheduled (multi datalogger available) More than 2 million records	
GPS Sensitivity Number of channels Updating	-165 dBm 66 < 1 sec	
INTERFACE & CONNECTION Fiber-optic Bluetooth USB Probe	Serial full duplex; for real time data reading For connection with APP Android (optional) Updating FW; batteries charger LEMO™ connector with automatic probe identification	
BATTERY Autonomy Charging time	AA Alkaline or rechargeable (NiMH @2,6A/h) (2 pcs included) > 120 hours (typical; with GPS, Bluetooth and low power display) 6 hours	
WEATHER CONDITIONS Temperature range Humidity range Immunity	-10+50° 595% without condensation 180 V/m (@50MHz)	
MECHANICAL DATA Dimensions Weight Protection grade Assembly to tripod	150 x 50 x 30 mm 300g IP51 Threaded insert 1/4"	



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