Hand-held Magnetic Loop Antenna MTA-MLA-930A

Short description

The probes MTA-MLA-930A measure only magnetic field strength and use E field shielding. This is also true when fictitious E field strength is derived from magnetic field strength via the characteristic field impedance of the free space. Fictitious electric field strength has been used for many years. Especially in the common AM frequency ranges the field strength of broadcast transmitters was measured under far field conditions.

Technical data

1 RF-specifications:

1.1	Impedance	50 Ω
1.2	Frequency range	9 kHz to 30 MHz
1.3	Max. field strength	150 V/m fictive electric field strength, 0,4 A/m magnetic field strength
1.4	Correction for H field strength	Magnetic field strength [dBµA/m] - receiver reading [dBµV] 11,5 dB
1.5	Correction for fictive E field strength	Fictive electric strength [dBµA/m] - receiver reading [dBµV] +40 dB
1.6	Technology	magnetic

2 Connectors:

2.1	Measuring output	50 Ω coaxial cable with BNC connector male

3 General specifications:

3.1	Power supply	12V / 0,15 A, separate power cable
3.2	Dimensions	Loop diameter 170 mm outside, length including handle 340 mm
3.3	Weight	Approx. 1 kg, approx. 1,5 kg with cable and connector

4 Delivered parts:

MTA-MLA-930A
Power supply 12V / 0,15 A cable with banana plugs
1 pc. 50 Ω coaxial cable with BNC connector male
CD-ROM with short description

5 Comments:

Warranty	12 months
RoHS compliant	Yes

6 Recommended accessories:

Measurement cable assemblies
Preamplifier

Operation
The probe can be either mounted on a tripod (optional adapter) or used hand-held. Using a tripod consisting of insulating material avoids negative influence on the field. Every day measurement practice shows only little influence caused by standard environment such as tables, walls and human bodies. The probe is directional. Maximum can be found by rotating the probe. The directivity can be used to direction finding of radiation sources.

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