Probes

MVG's field detection probes are composed of three orthogonal dipoles or loops linked to special Schottky diodes with low detection thresholds. The probes allow the measurement of electric or magnetic fields in liquids or in the air, as defined in the standards.

MAIN FEATURES

Product category

- Field probe

Function

- Measures field in SAR and HAC benches

User profile

- SAR and HAC bench users

Frequency bands

- 150 MHz to 7.5 GHz

Related standard

- IEC/IEEE 62209-1528, FCC related KDBs, IEC62209-1/-2, EN 50360, EN50566, ANSI C63.19, IEEE1309.

Services

- Calibration

A Set of High Performance Probes to Perform SAR and HAC Measurements

A range of probes are available from 150 MHz to 7.5 GHz, depending on the applicable standards. The patented shape of each probe optimizes the functioning and isotropy of the probe over the entire frequency range.

E-field probes

Mechanical

	SAR 7.5 Ghz	SAR 3 Ghz	HAC
Length	330 mm		
Dipole length	2 mm	3.3-4.5 mm	
Maximum external diameter	8 mm	8 mm	
Probe tip external diameter	2.5 mm	5 mm	
Distance between diode and the probe tip	1 mm	< 2.7 mm	< 2 mm
Connectors	6 contact male plug (Hirose SR30)		

Electrical

	SAR 7.5 Ghz	SAR 3 Ghz	HAC
High resistance line	200 KΩ to 2 MΩ		
Axial isotropy in human-equivalent liquids	< 0.15 dB		
Hemispherical Isotropy in human-equivalent liquids	< 0.5 dB		
Linearity in human-equivalent liquid	± 0.2 dB		
Dynamic in human-equivalent liquid	0.01-100 Watts/kg		NA
Dynamic in the air	NA	2-500 V/m	

Technical characteristics of T-coil probe

Mechanical

Dimension	350 x 12 mm
One coil	6,55 mm length x 2.29 mm diameter
Frequency	0.1-20 KHz
Sensitivity	-60.5 dB (V/A/m) with ± 0.5 dB on the whole band
Measurements	Both axial and radial
Connectors	6 contact male plug (compatible with SAR support) and BNC

To verify the complete operation of the SAR probe after repeated handling and use, to check the accuracy of each parameter against its specification the recommended calibration interval is 12 months.*

* ILAC-G24/OIML D10