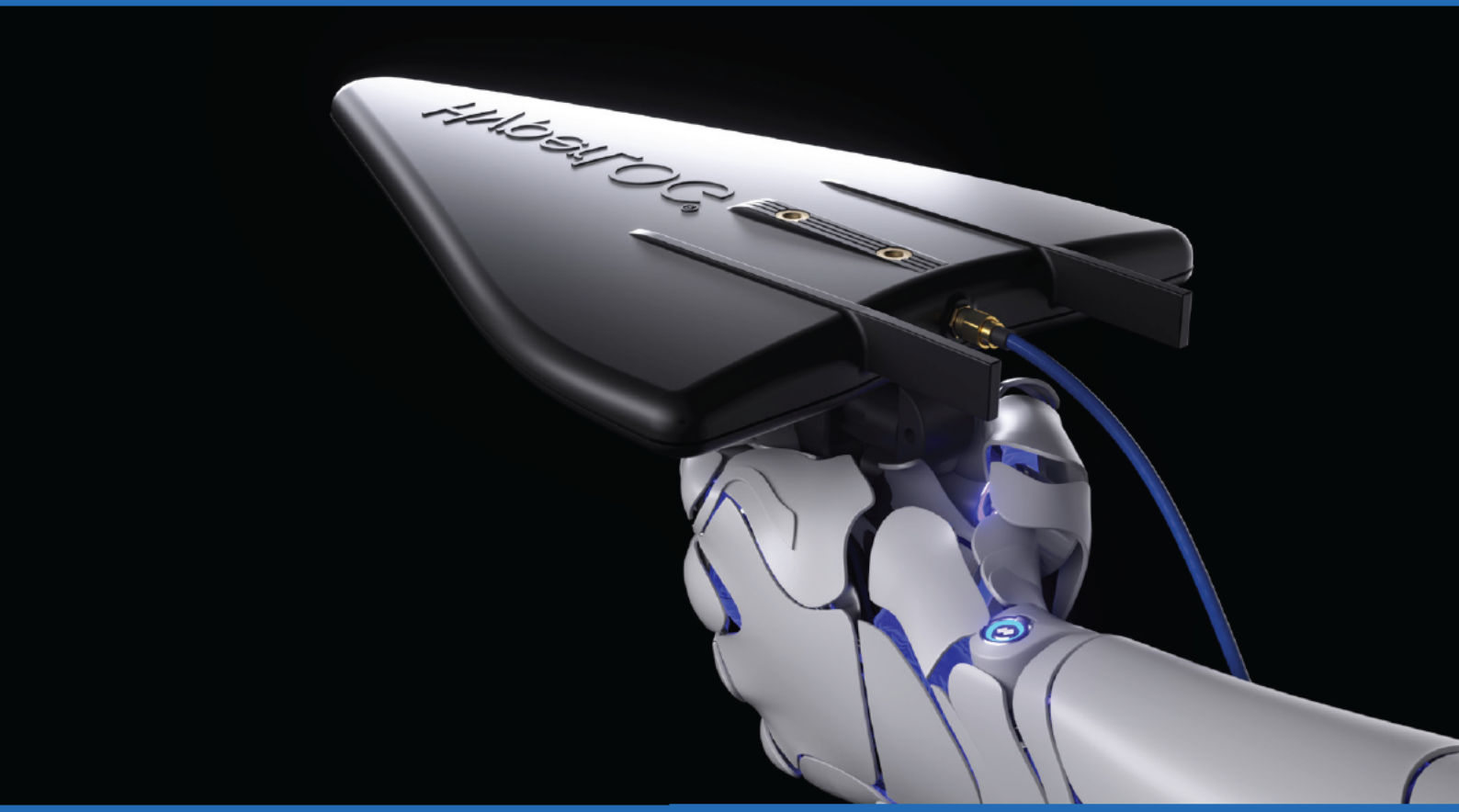
LPDA HYBRID ANTENNAS

HYPERLOG®

PRO SERIES

High performance broadband measurement and DF antenna from 2 GHz to 40 GHz



Highlights:

- Extremely broadband
- High gain and high directivity
- Excellent forward/backward ratio
- Compact and robust design

AARONIA AG®

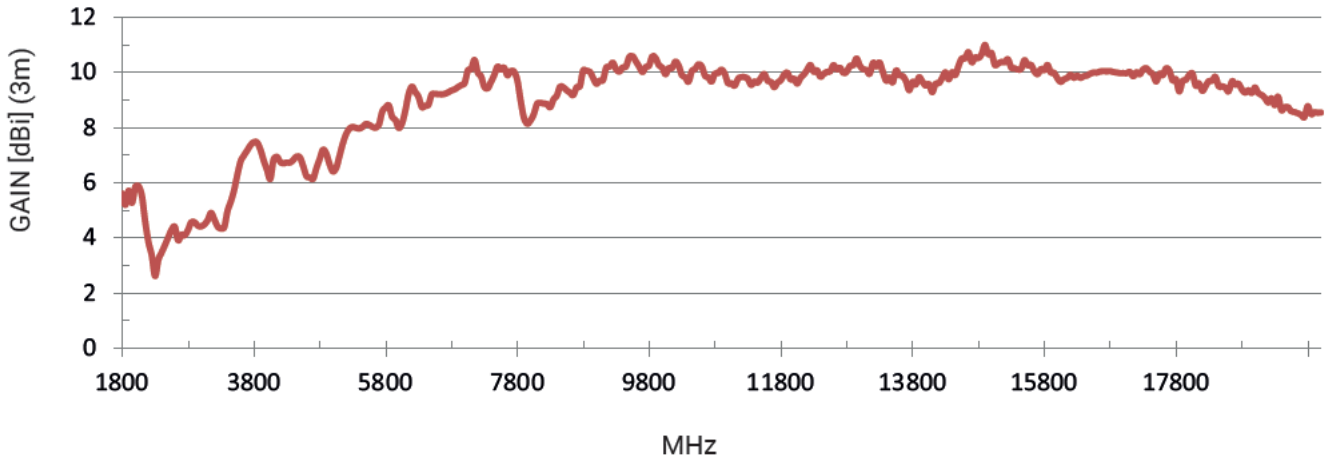
MADE IN GERMANY

Specifications

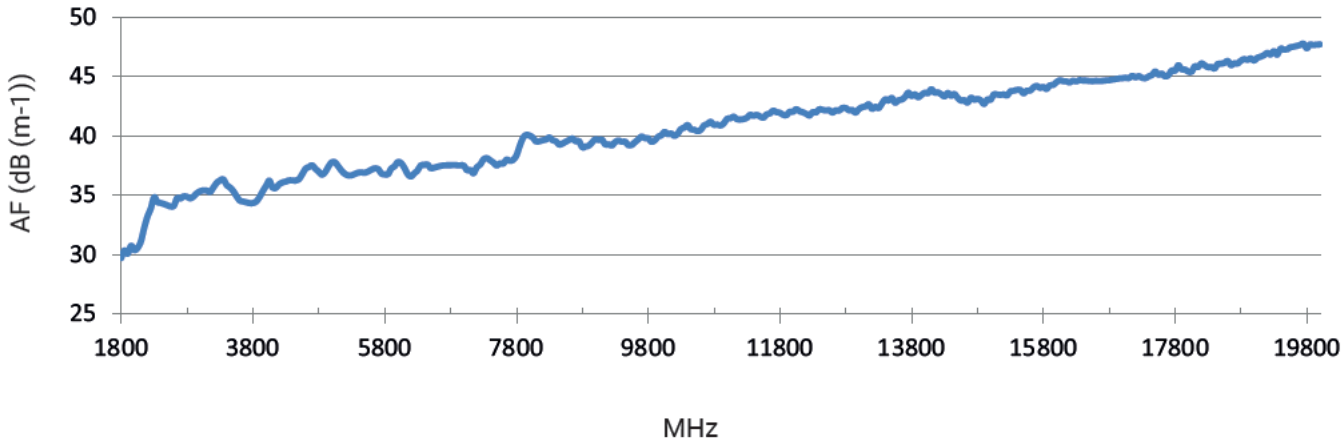
HyperLOG® PRO 18200

Dimensions [L x W x D]	340 x 200 x 25 mm	**Nominal Impedance**	50 Ohm
Weight	250 g	**Calibration Points**	365 (50 MHz steps)
Design	LPDA Hybrid	**VSWR (typ.)**	< 2:1
Gain (typ.)	11 dBi	**Max. Transmission Power**	100 W CW (15 GHz)
RF Connection	2.92 mm K (f)	**Antenna Factor**	29 – 47 dB/m
Frequency Range	2 GHz – 20 GHz	**HPBW**	min. 26°

Gain Diagram HyperLOG® PRO 18200



Antenna Factor Diagram HyperLOG® PRO 18200

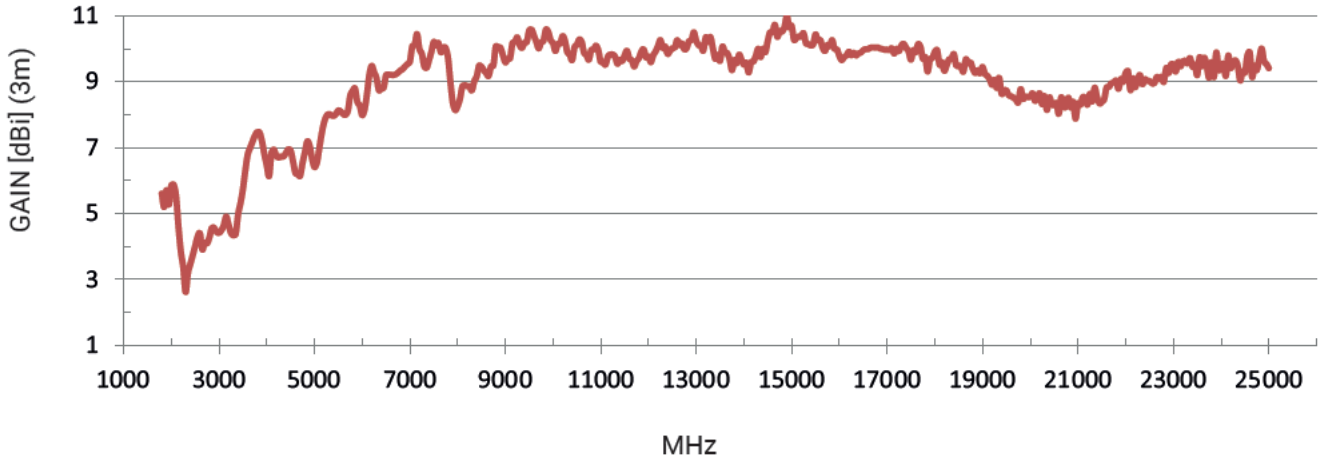


Specifications

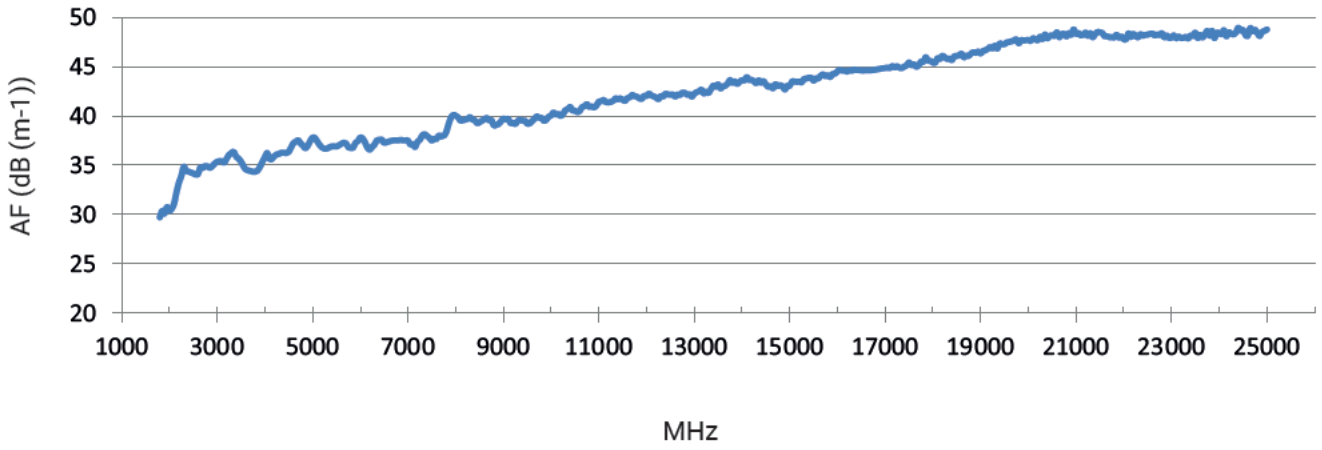
HyperLOG® PRO 18250

Dimensions [L x W x D]	340 x 200 x 25 mm	**Nominal Impedance**	50 Ohm
Weight	250 g	**Calibration Points**	465 (50 MHz steps)
Design	LPDA Hybrid	**VSWR (typ.)**	< 2:1
Gain (typ.)	11 dBi	**Max. Transmission Power**	100 W CW (15 GHz)
RF Connection	2.92 mm K (f)	**Antenna Factor**	29 – 48 dB/m
Frequency Range	2 GHz – 25 GHz	**HPBW**	min. 26°

Gain Diagram HyperLOG® PRO 18250



Antenna Factor Diagram HyperLOG® PRO 18250

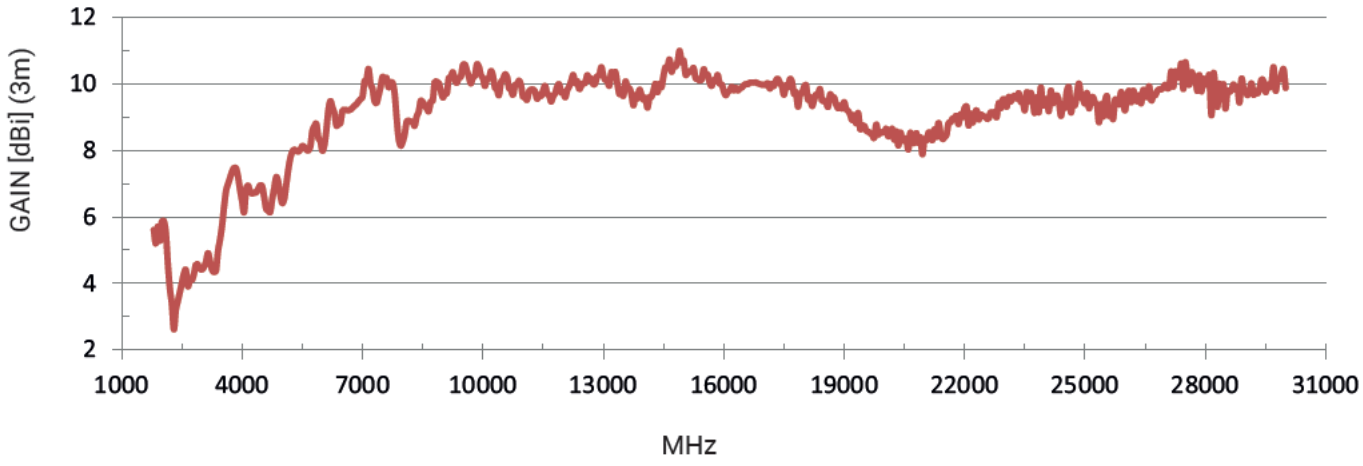


Specifications

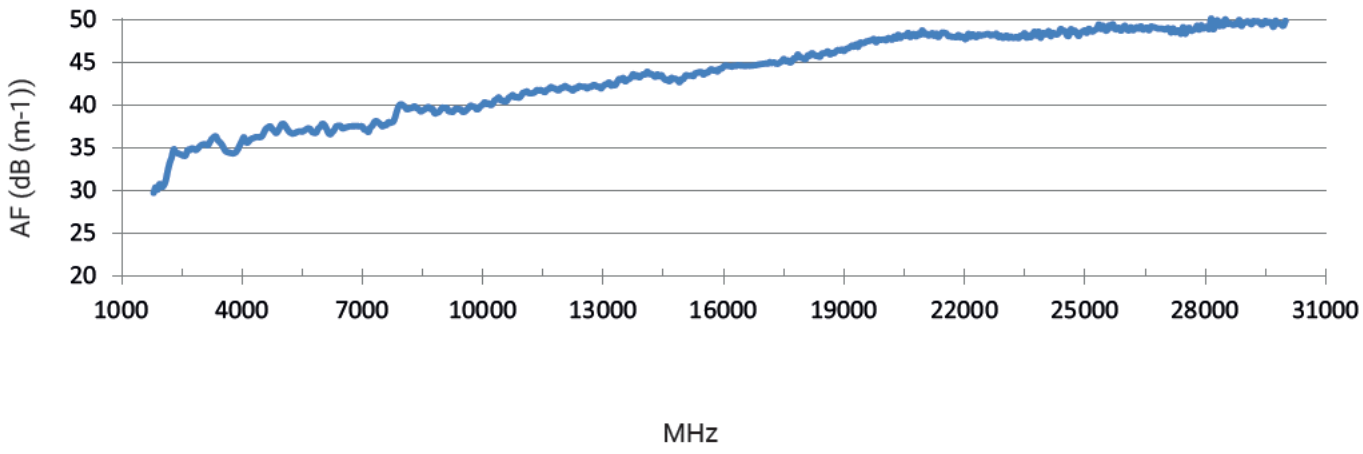
HyperLOG® PRO 18300

Dimensions [L x W x D]	340 x 200 x 25 mm	**Nominal Impedance**	50 Ohm
Weight	250 g	**Calibration Points**	565 (50 MHz steps)
Design	LPDA Hybrid	**VSWR (typ.)**	< 2:1
Gain (typ.)	11 dBi	**Max. Transmission Power**	100 W CW (15 GHz)
RF Connection	2.92 mm K (f)	**Antenna Factor**	29 – 50 dB/m
Frequency Range	2 GHz – 30 GHz	**HPBW**	min. 26°

Gain Diagram HyperLOG® PRO 18300



Antenna Factor Diagram HyperLOG® PRO 18300

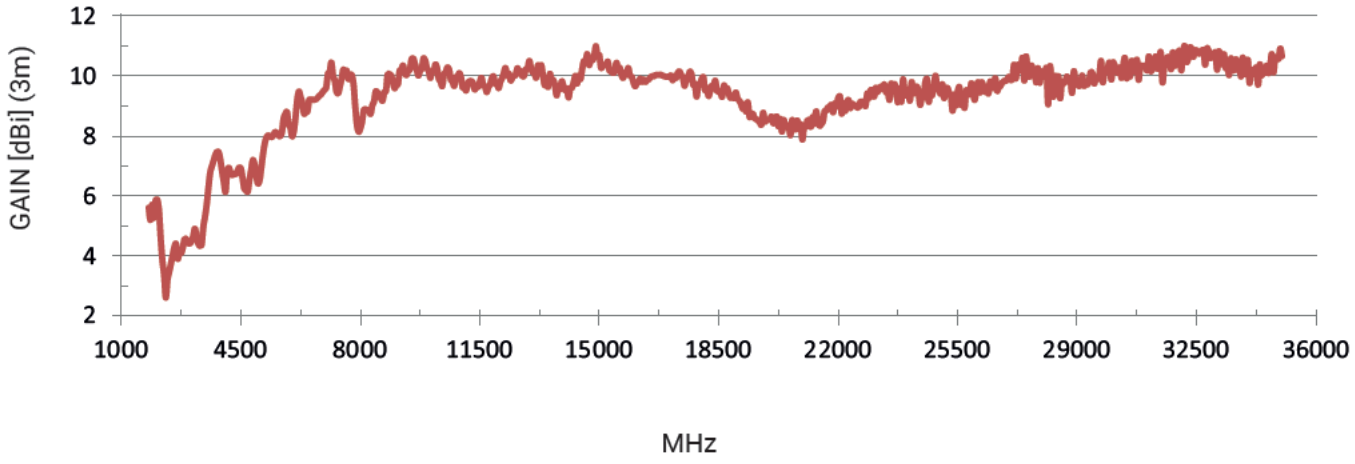


Specifications

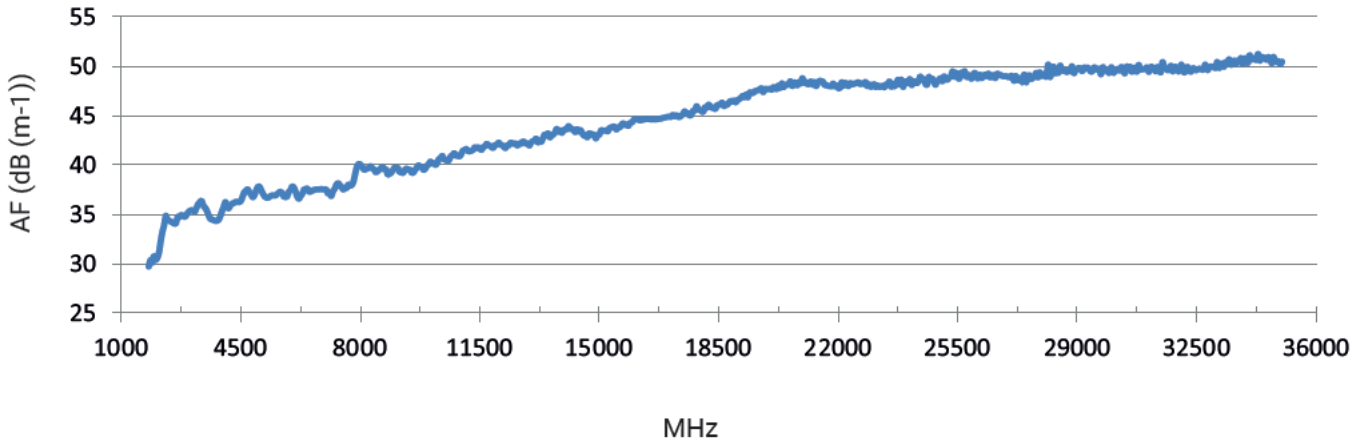
HyperLOG® PRO 18350

Dimensions [L x W x D]	340 x 200 x 25 mm	**Nominal Impedance**	50 Ohm
Weight	250 g	**Calibration Points**	665 (50 MHz steps)
Design	LPDA Hybrid	**VSWR (typ.)**	< 2:1
Gain (typ.)	11 dBi	**Max. Transmission Power**	100 W CW (15 GHz)
RF Connection	2.92 mm K (f)	**Antenna Factor**	29 – 54 dB/m
Frequency Range	2 GHz – 35 GHz	**HPBW**	min. 26°

Gain Diagram HyperLOG® PRO 18350



Antenna Factor Diagram HyperLOG® PRO 18350

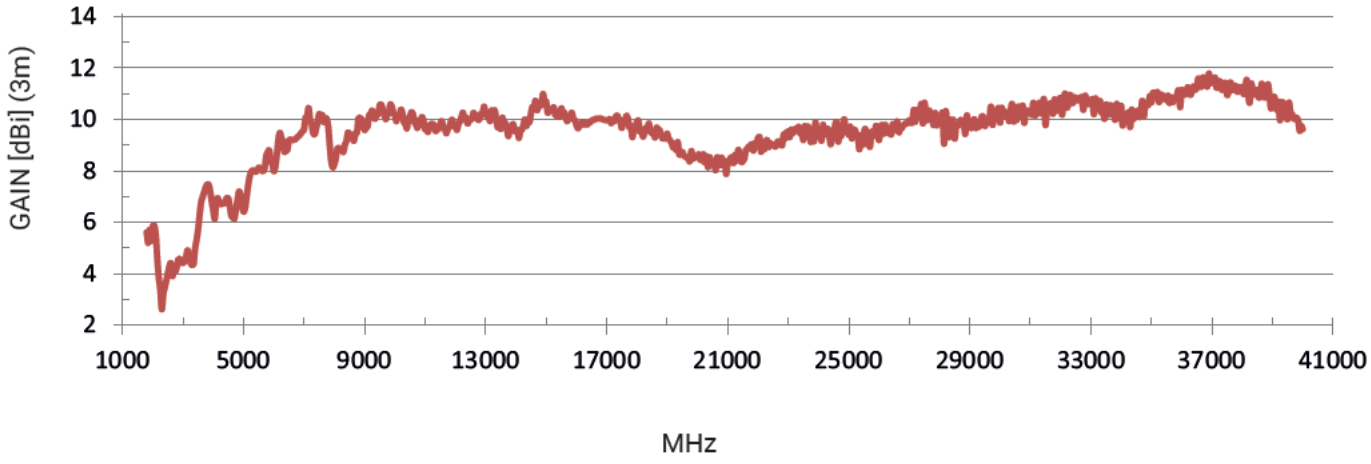


Specifications

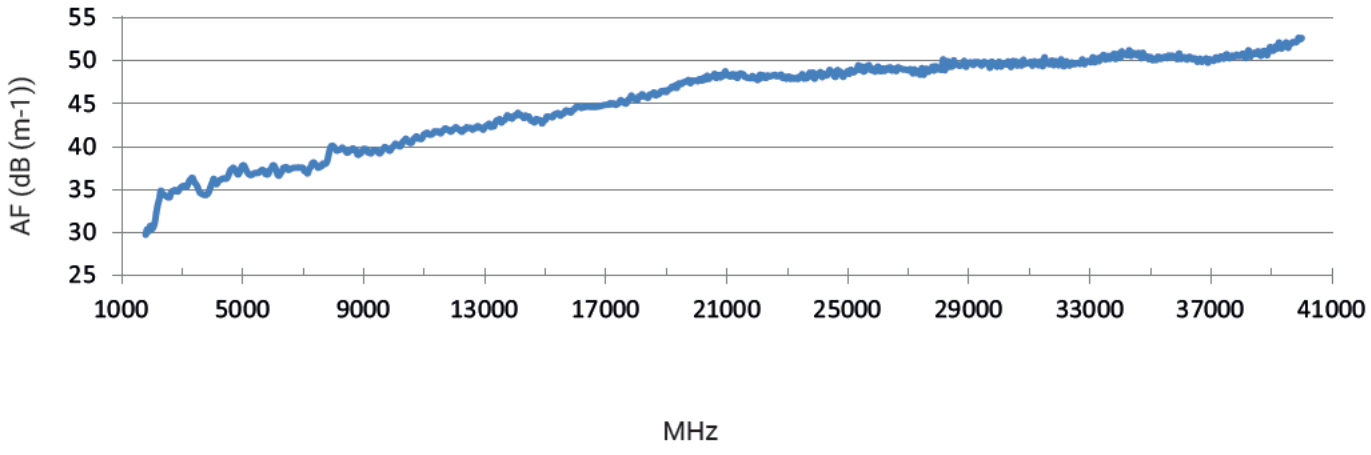
HyperLOG® PRO 18400

Dimensions [L x W x D]	340 x 200 x 25 mm	**Nominal Impedance**	50 Ohm
Weight	250 g	**Calibration Points**	765 (50 MHz steps)
Design	LPDA Hybrid	**VSWR (typ.)**	< 2:1
Gain (typ.)	12 dBi	**Max. Transmission Power**	100 W CW (15 GHz)
RF Connection	2.92 mm K (f)	**Antenna Factor**	29 – 53 dB/m
Frequency Range	2 GHz – 40 GHz	**HPBW**	min. 25°

Gain Diagram HyperLOG® PRO 18400

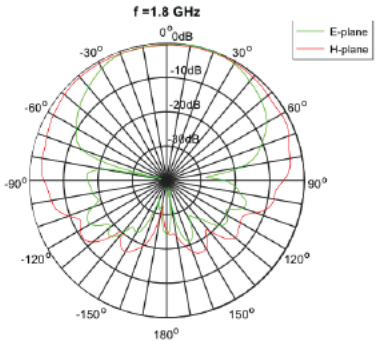


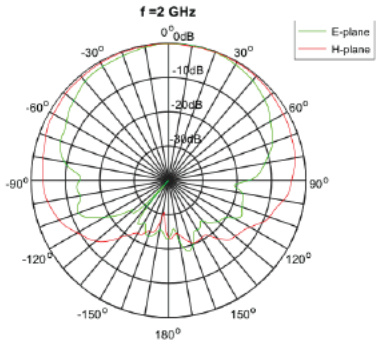
Antenna Factor Diagram HyperLOG® PRO 18400

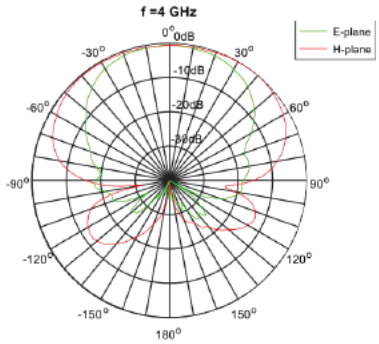


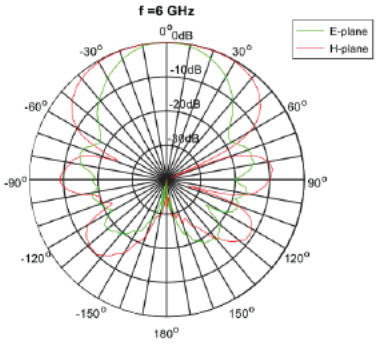
Pattern

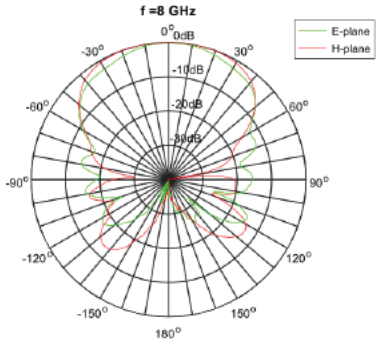
Measured normalized radiation patterns (1.8 - 22 GHz)

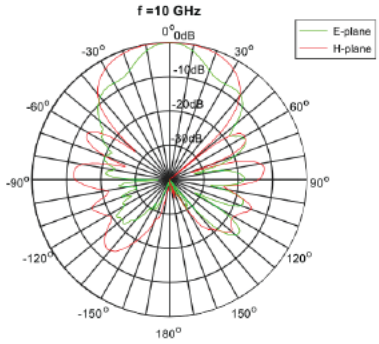


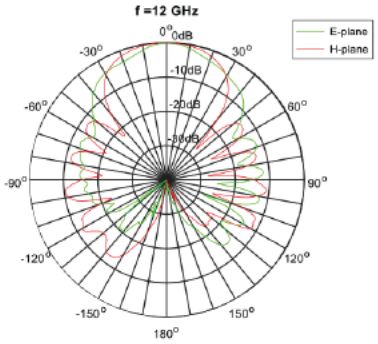


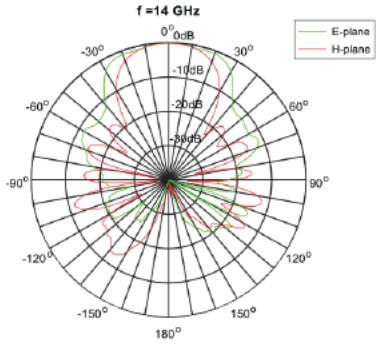


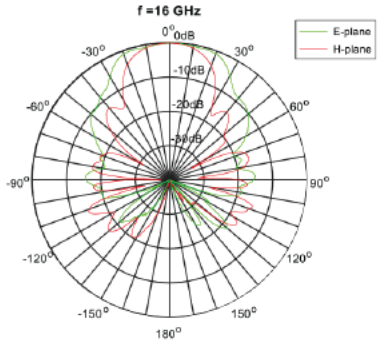


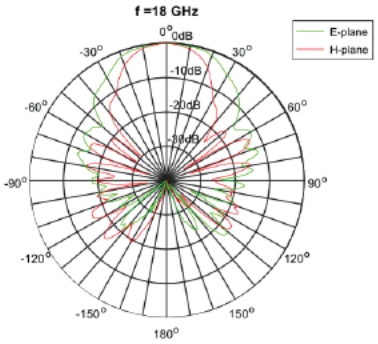


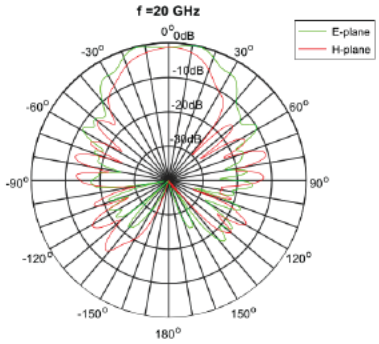


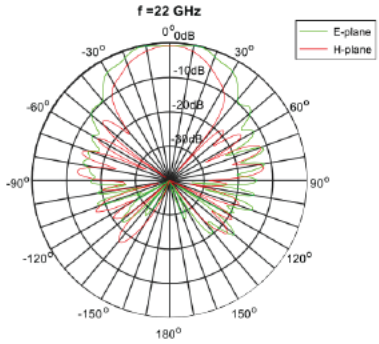






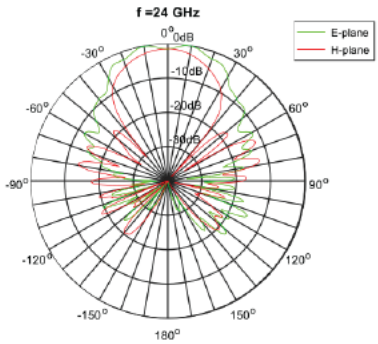


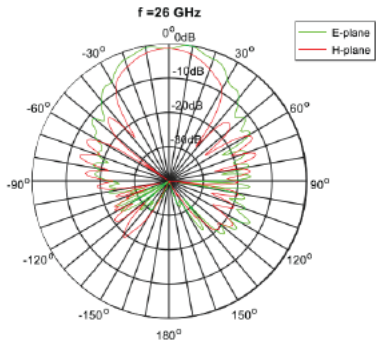


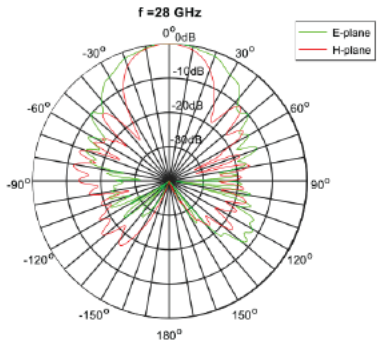


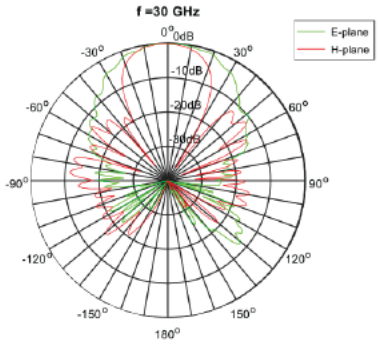
Pattern

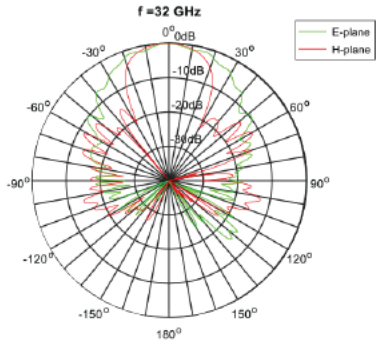
Measured normalized radiation patterns (24 - 40 GHz)

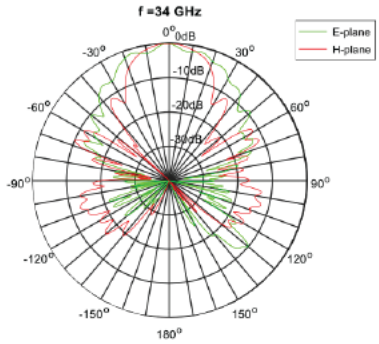


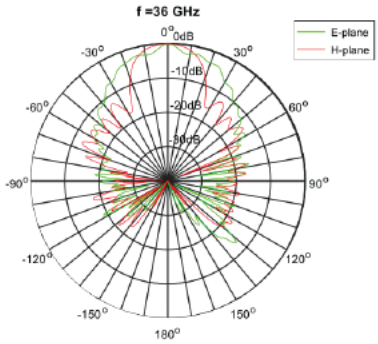


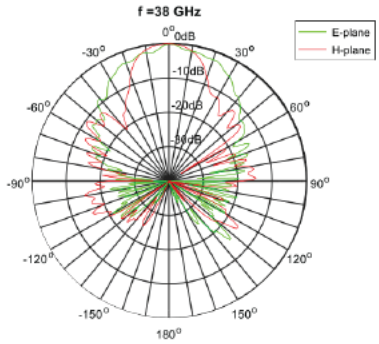


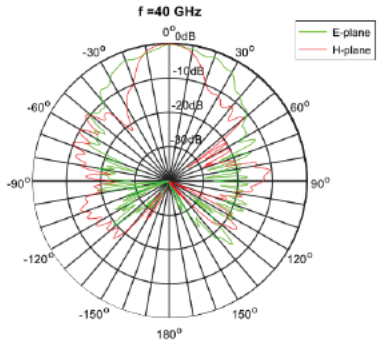












Recommended Accessories

Aluminum Tripod

Height adjustable, high stability. Recommended for use with HyperLOG® antennas.

Max. height: 105 cm.

Order/Art.-No.: 503/011

Multifunctional Pistol Grip

(strongly recommended)

Highly recommended for our HyperLOG® antennas. Quick and easy antenna polarization change, guarantees perfectly stable antenna handling.

Order/Art.-No.: 503/012

2 m K-Cable

Low loss phase stable high frequency cable 2m with screw aid.

2.92 K(m) - 2.92 K(m)
Frequency range: 10 MHz - 40 GHz
Diameter: 3.6 mm

Order/Art.-No.: 501/056

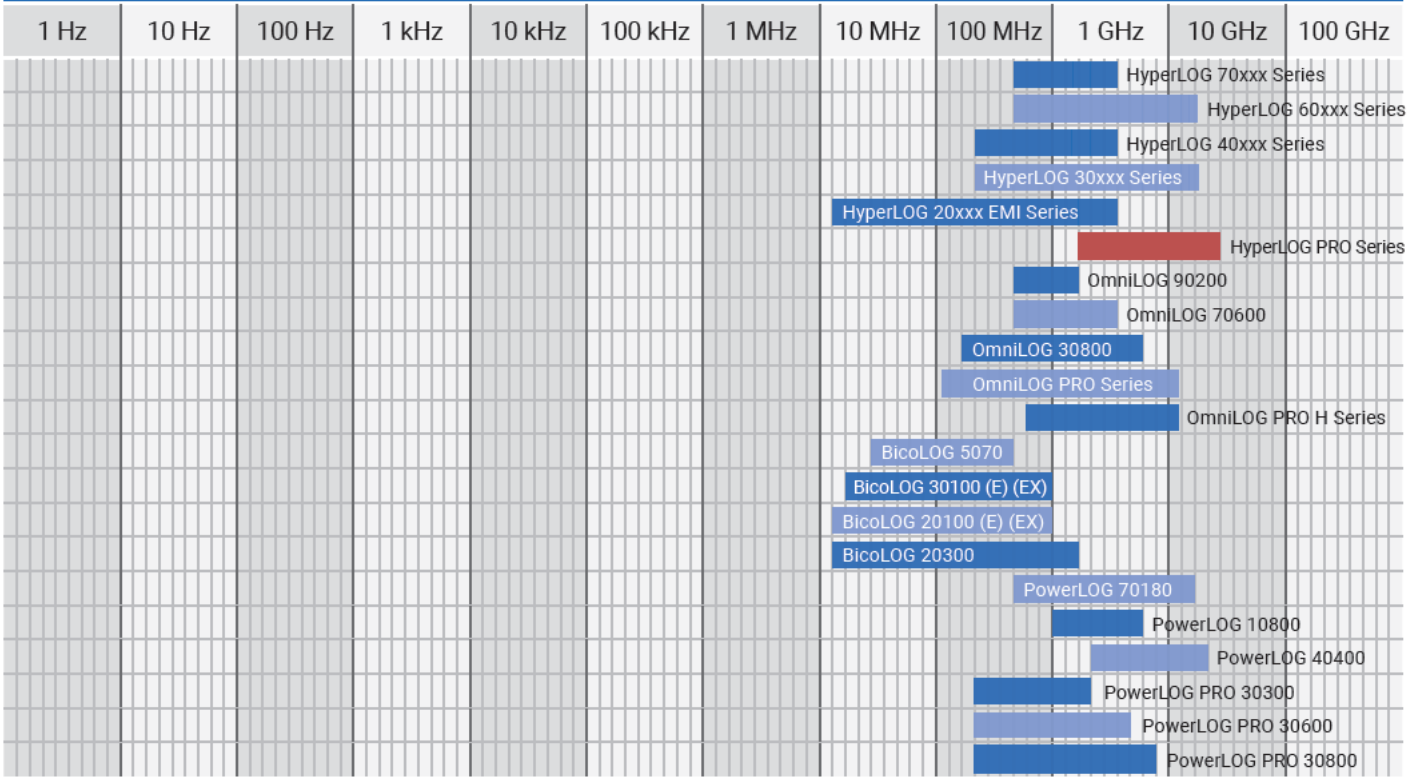
GPS Logger

The Aaronia GPS - Logger includes a total of 6 sensors, all of them on the cutting edge of technology, making it the world's first stand-alone data logger with such a variety of sensors.

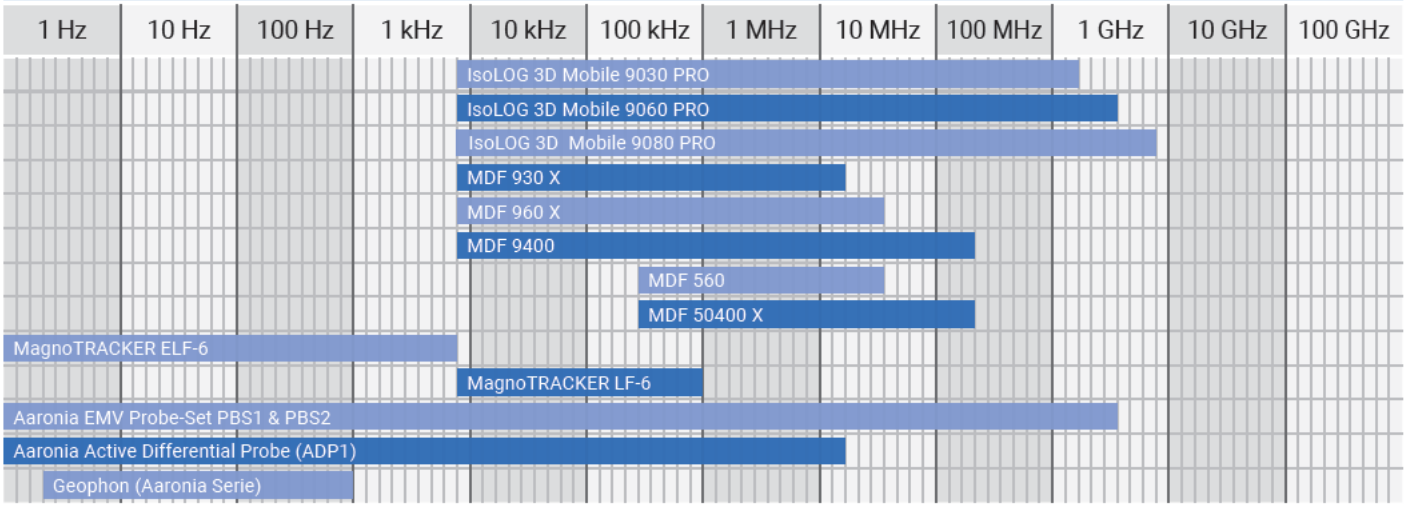
Order/Art.-No.: 503/035

Frequency Overviews

Frequency Overview HyperLOG®, BicoLOG® and PowerLOG® Antennas



Frequency Overview IsoLOG® 3D, MDF, MagnoTRACKER® and Probes



REFERENCES

Selected Aaronia Clients

AARONIA AG
WWW.AARONIA.DE

Government, Military, Aeronautic, Astronautic

- **NATO,** Belgium
- **Department of Defense (DoD),** USA
- **Department of Defence,** Australia
- **Airbus,** Germany
- **Boeing,** USA
- **German Armed Forces,** Germany
- **NASA,** USA
- **Lockheed Martin,** USA
- **Lufthansa,** Germany
- **German Aerospace Center (DLR),** Germany
- **Eurocontrol,** Belgium
- **EADS,** Germany
- **Drug Enforcement Administration (DEA),** USA
- **Federal Bureau of Investigation (FBI),** USA
- **Federal Criminal Police Office (BKA),** Germany
- **Federal Police,** Germany
- **Ministry of Defence,** Netherlands

Research/Development, Science and Universities

- **MIT - Physics Department,** USA
- **California State University,** USA
- **Indonesian Institute of Sience (LIPI),** Indonesia
- **Los Alamos National Laboratory (LANL),** USA
- **University of Bahrain,** Bahrain
- **University of Florida,** USA
- **University of Victoria,** Canada
- **University of Newcastle,** United Kingdom
- **University of Durham,** United Kingdom
- **University Strasbourg,** France
- **University of Sydney,** Australia
- **University of Athen,** Greece
- **University of Munich,** Germany
- **Technical University of Hamburg,** Germany
- **Max-Planck Inst. for Radio Astronomy,** Germany
- **Max-Planck Inst. for Nuclear Physics,** Germany
- **Research Centre Karlsruhe,** Germany

Industry

- **IBM,** Switzerland
- **Intel,** Germany
- **Shell Oil Company,** USA
- **ATI,** USA
- **Microsoft,** USA
- **Motorola,** Brazil
- **Audi,** Germany
- **BMW,** Germany
- **Daimler,** Germany
- **Volkswagen,** Germany
- **BASF,** Germany
- **Siemens AG,** Germany
- **Rohde & Schwarz,** Germany
- **Infineon,** Austria
- **Philips,** Germany
- **ThyssenKrupp,** Germany
- **EnBW (Energie Baden-Württemberg),** Germany
- **CNN,** USA
- **Duracell,** USA
- **German Telekom,** Germany
- **Bank of Canada,** Canada
- **NBC News,** USA
- **Sony,** Germany
- **Anritsu,** Germany
- **Hewlett-Packard,** Germany
- **Bosch,** Germany
- **Mercedes-Benz,** Austria
- **Osram,** Germany
- **DEKRA,** Germany
- **AMD,** Germany
- **Keysight,** China
- **Infineon Technologies,** Germany
- **Philips Semiconductors,** Germany
- **Hyundai Europe,** Germany
- **VIAVI,** Korea
- **Wilkinson Sword,** Germany
- **IBM Deutschland,** Germany
- **Nokia-Siemens Networks,** Germany