# BROADBAND ANTENNAS

# OMNILOG®PRO SERIES

**Omni-directional broadband antenna with up to 18 GHz frequency range and high gain**


## Highlights:

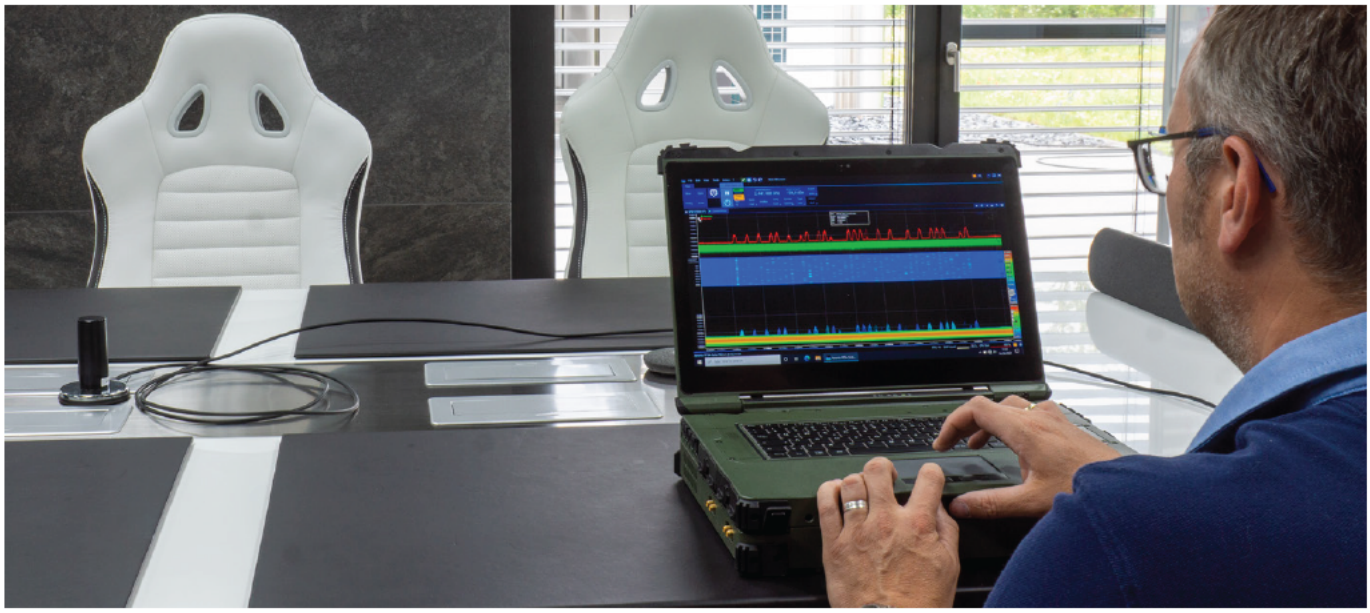
- Perfectly usable with spectrum analyzers for omnidirectional measurements
- Magnetic base or mounting bracket included
- Very compact design, lightweight

AARONIA AG®

MADE IN GERMANY

# OmniLOG® PRO Series

The new OmniLOG PRO series consists of ultra-wideband and cost-effective receive antennas.



These broadband antennas are excellent for radial isotropic measurements, interference detection or frequency monitoring in conference rooms, but is also perfect to use outdoors, e.g. with the magnetic base on a car. Depending on the type, they cover all RF sources from VHF to K-band (for example, radio and TV, mobile communications, DECT, Bluetooth and WLAN, etc.).

Each OmniLOG PRO is equipped with a high-tech antenna housing suitable for outdoor use (IP65 certified) as protection against environmental influences. The magnetic antenna base allows temporary fixed installation, for example on the car roof.

The OmniLOG PRO undergoes rigorous testing in our laboratories before shipment. This guarantees the highest quality standards.

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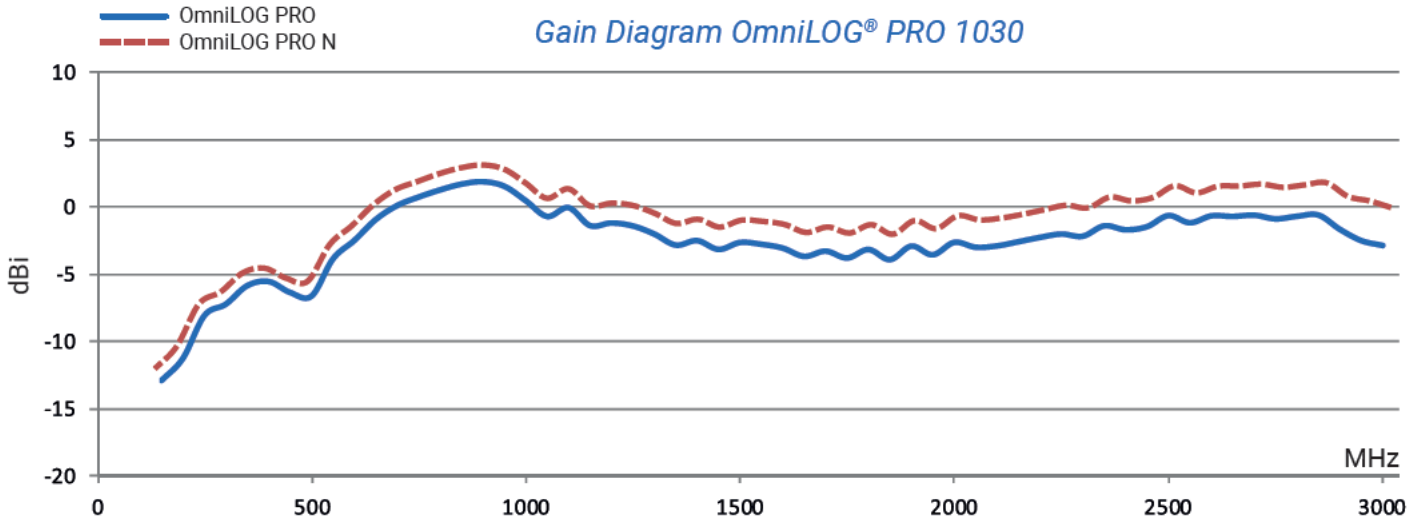
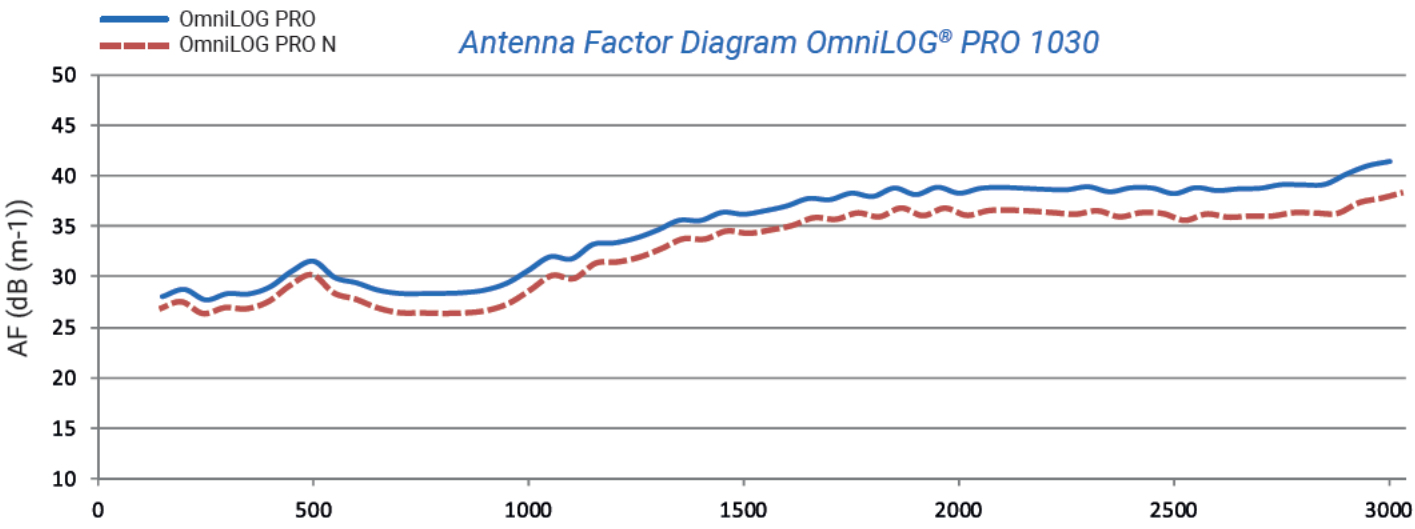
# Specifications

| | OmniLOG® PRO 1030 | OmniLOG® PRO N 1030 |
|---|---|---|
| **Frequency Range** | 150 MHz – **3 GHz** (usable from 80 MHz) | |
| **Design** | Radial isotrop | |
| **Polarisation** | Vertical, linear | |
| **RF Connection** | SMA (male) | N (f) |
| **Nominal Impedance** | 50 Ohm | |
| **Gain (max.)** | 2 dBi | 5 dBi |
| **VSWR (typ.)** | < 2,5:1 | |
| **Max. Input Power** | 1 W | |
| **Temperature Range** | - 40° C – + 70° C | |
| **Relative Humidity** | 0 % – 95 % | |
| **Dimensions** | Ø 8.4 x H 9.6 (incl. magnetic base) | Ø 3.6 x H 11 (excl. mounting bracket) |
| **Accessories included** | Magnetic base with 3.6 m cable | Mounting bracket, bracket holder with screws, N to SMA adapter |
| **Weight** | 600 g | 255 g |

*Gain Diagram OmniLOG® PRO 1030*

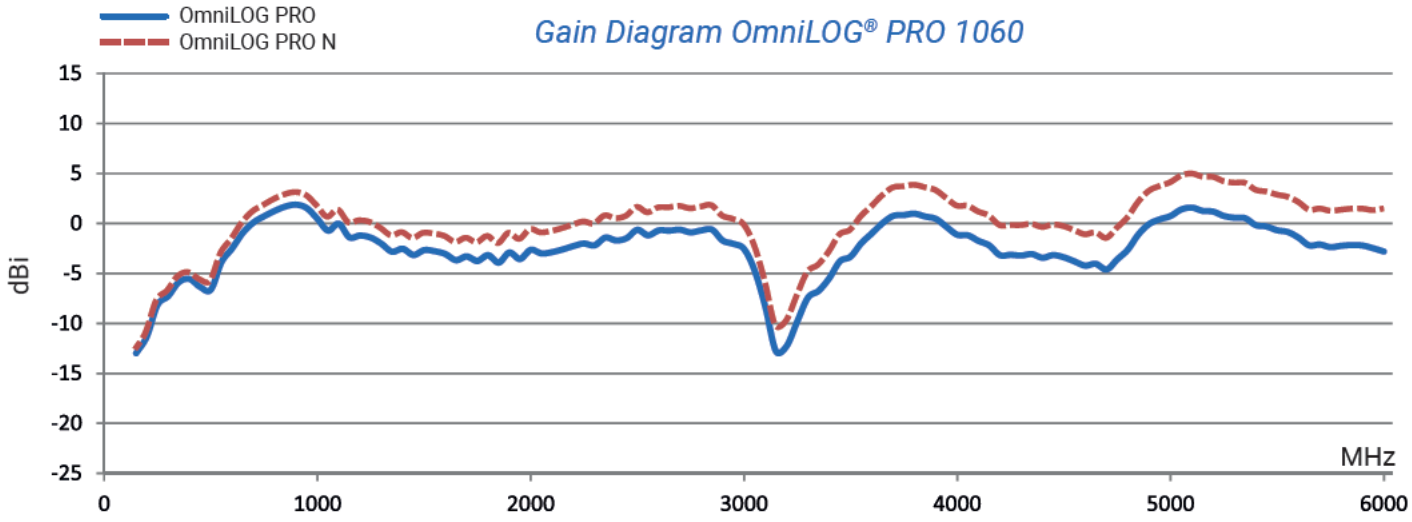


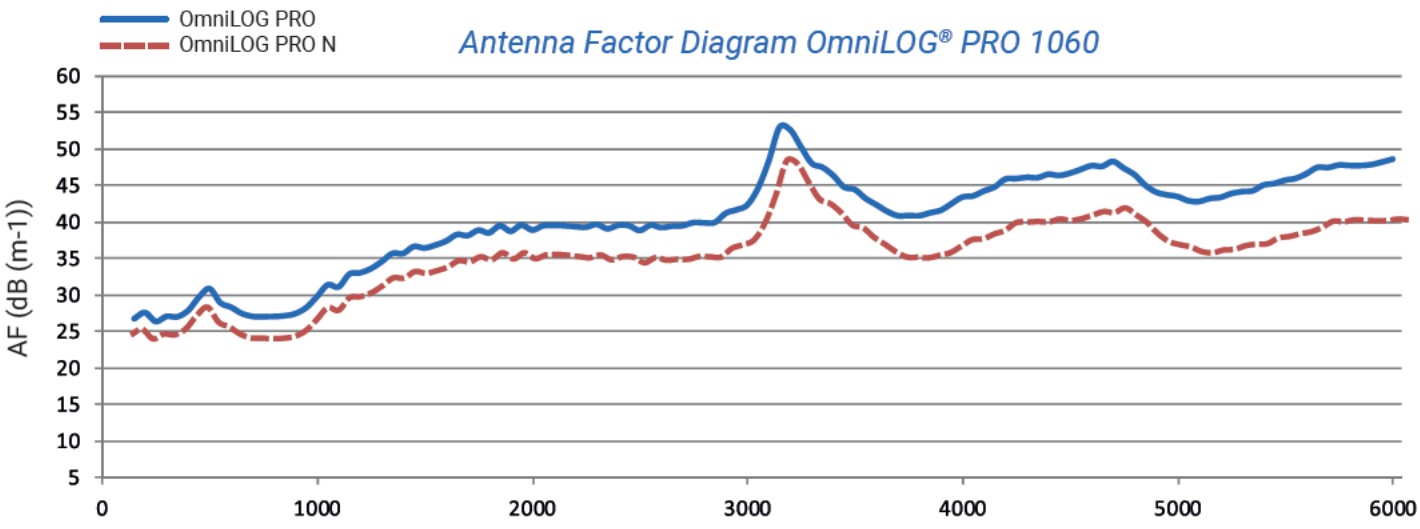

*Antenna Factor Diagram OmniLOG® PRO 1030*



# Specifications

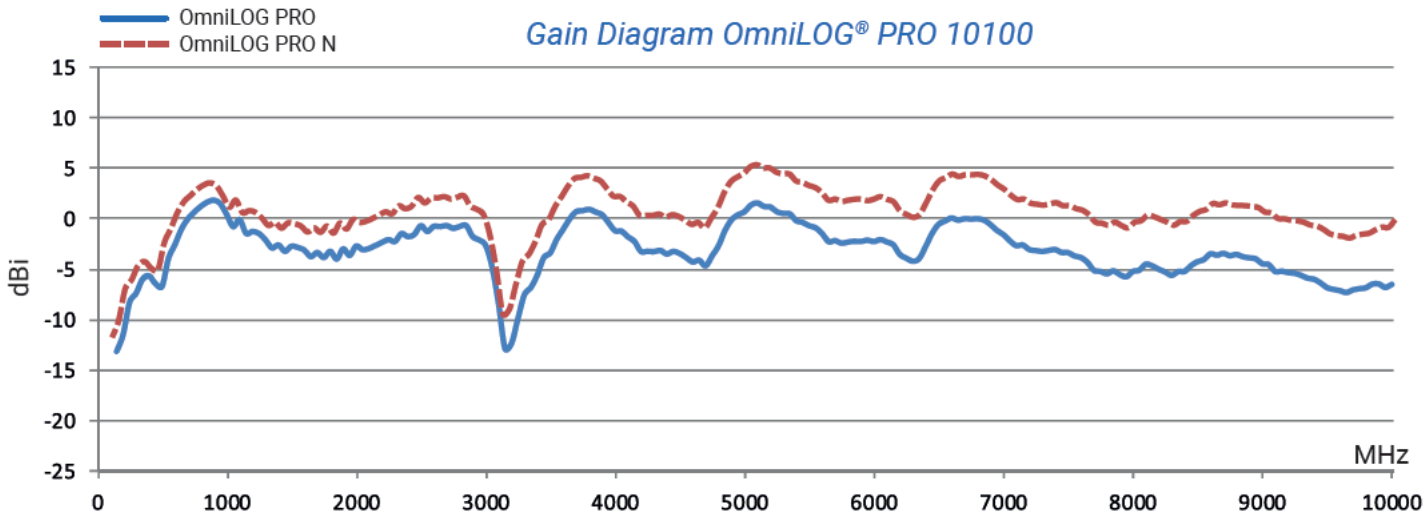
| | OmniLOG® PRO 1060 | OmniLOG® PRO N 1060 |
|---|---|---|
| **Frequency Range** | 150 MHz – **6 GHz** (usable from 80 MHz) | |
| **Design** | Radial isotrop | |
| **Polarisation** | Vertical, linear | |
| **RF Connection** | SMA (male) | N (f) |
| **Nominal Impedance** | 50 Ohm | |
| **Gain (max.)** | 2 dBi | 5 dBi |
| **VSWR (typ.)** | < 2,5:1 | |
| **Max. Input Power** | 1 W | |
| **Temperature Range** | - 40° C – + 70° C | |
| **Relative Humidity** | 0 % – 95 % | |
| **Dimensions** | Ø 8.4 x H 9.6 (incl. magnetic base) | Ø 3.6 x H 11 (excl. mounting bracket) |
| **Accessories included** | Magnetic base with 3.6 m cable | Mounting bracket, bracket holder with screws, N to SMA adapter |
| **Weight** | 600 g | 255 g |

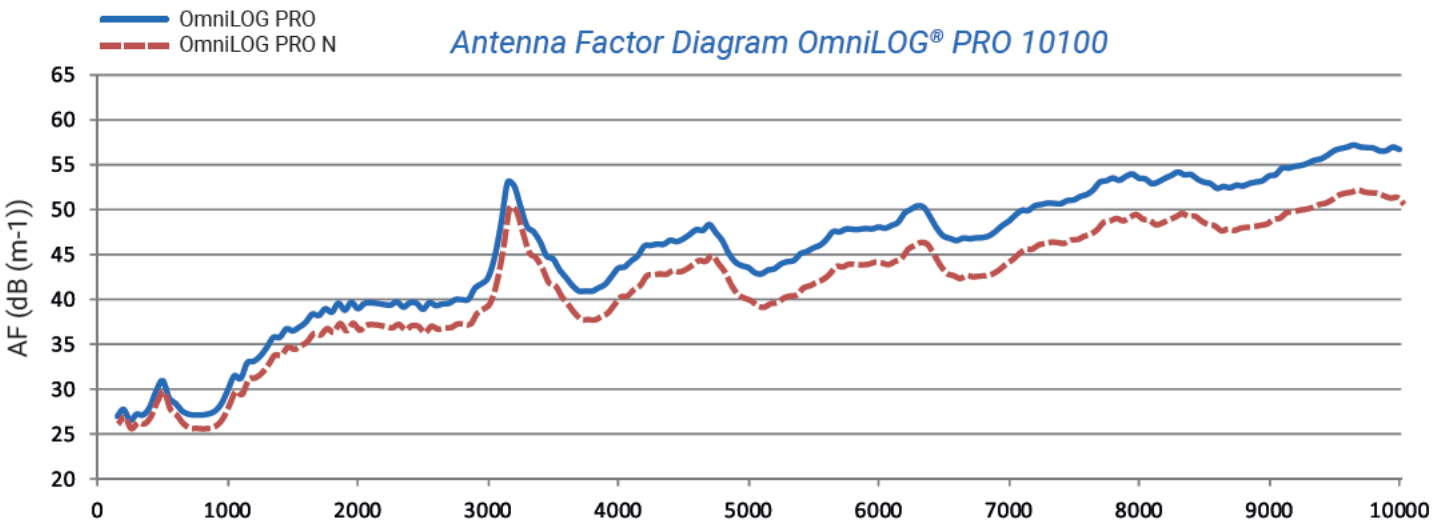


# Specifications

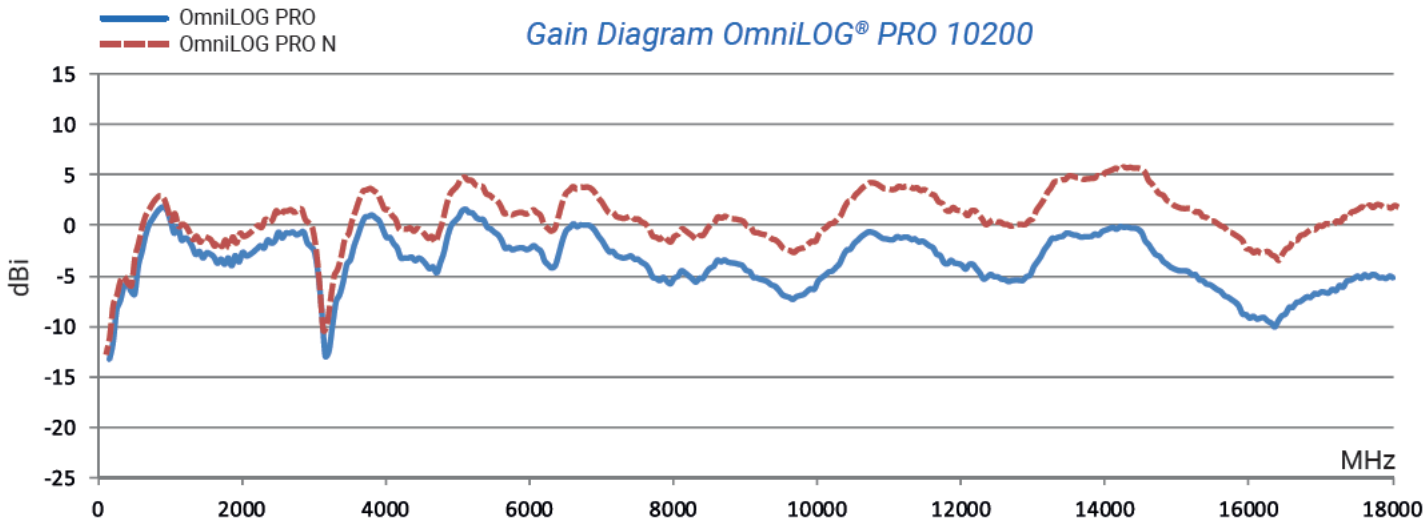
| | OmniLOG® PRO 10100 | OmniLOG® PRO N 10100 |
|---|---|---|
| **Frequency Range** | 150 MHz – **10 GHz** (usable from 80 MHz) | |
| **Design** | Radial isotrop | |
| **Polarisation** | Vertical, linear | |
| **RF Connection** | SMA (male) | N (f) |
| **Nominal Impedance** | 50 Ohm | |
| **Gain (max.)** | 2 dBi | 5 dBi |
| **VSWR (typ.)** | < 2,5:1 | |
| **Max. Input Power** | 1 W | |
| **Temperature Range** | - 40° C – + 70° C | |
| **Relative Humidity** | 0 % – 95 % | |
| **Dimensions** | Ø 8.4 x H 9.6 (incl. magnetic base) | Ø 3.6 x H 11 (excl. mounting bracket) |
| **Accessories included** | Magnetic base with 3.6 m cable | Mounting bracket, bracket holder with screws, N to SMA adapter |
| **Weight** | 600 g | 255 g |

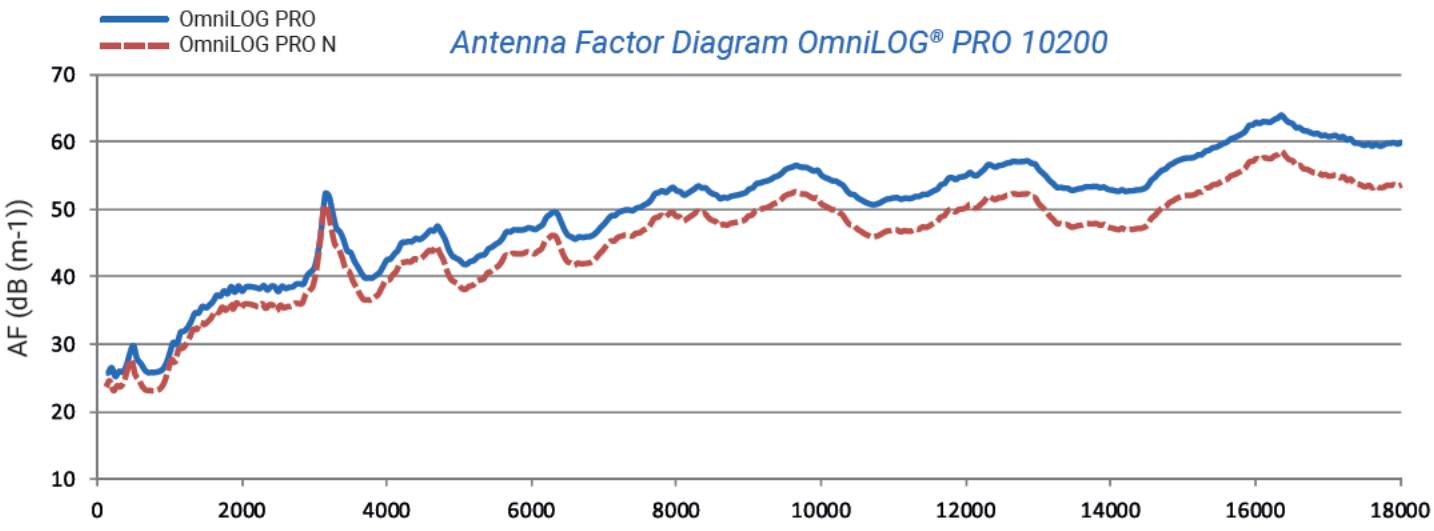


# Specifications

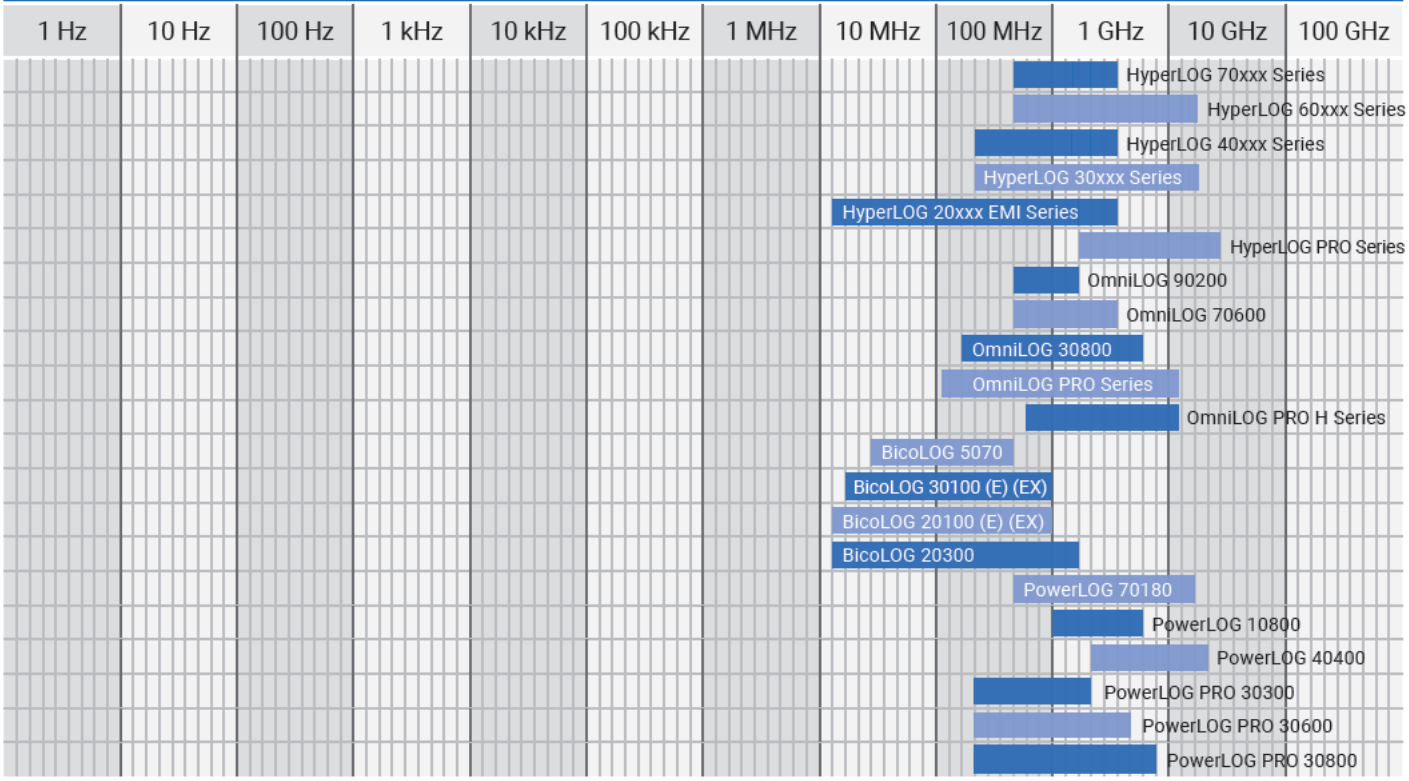
| | OmniLOG® PRO 10200 | OmniLOG® PRO N 10200 |
|---|---|---|
| **Frequency Range** | 150 MHz – **18 GHz** (usable from 80 MHz to 20 GHz) | |
| **Design** | Radial isotrop | |
| **Polarisation** | Vertical, linear | |
| **RF Connection** | SMA (male) | N (f) |
| **Nominal Impedance** | 50 Ohm | |
| **Gain (max.)** | 2 dBi | 5 dBi |
| **VSWR (typ.)** | < 2,5:1 | |
| **Max. Input Power** | 1 W | |
| **Temperature Range** | - 40° C – + 70° C | |
| **Relative Humidity** | 0 % – 95 % | |
| **Dimensions** | Ø 8.4 x H 9.6 (incl. magnetic base) | Ø 3.6 x H 11 (excl. mounting bracket) |
| **Accessories included** | Magnetic base with 3.6 m cable | Mounting bracket, bracket holder with screws, N to SMA adapter |
| **Weight** | 600 g | 255 g |



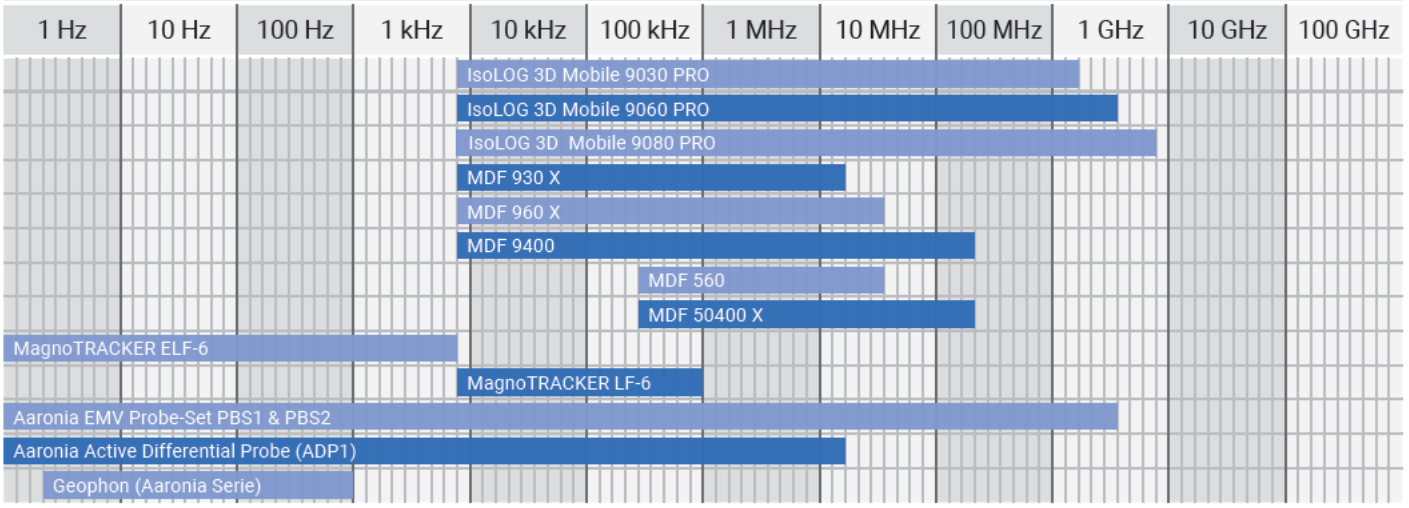



# Frequency Overviews

## 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
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- **AMD,** Germany
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- **Infineon Technologies,** Germany
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