

# HIGH-POWER HORN ANTENNAS

# POWERLOG<sup>®</sup> PRO

## SERIES

Constant field strength, enormous broadband and highest transmit power.



### Highlights:

- Wide frequency range from 300 MHz - 8 GHz
- Supports very high power levels up to 500W
- Constant field strength due to linear increasing gain
- High gain up to 14dBi

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**MADE IN GERMANY**

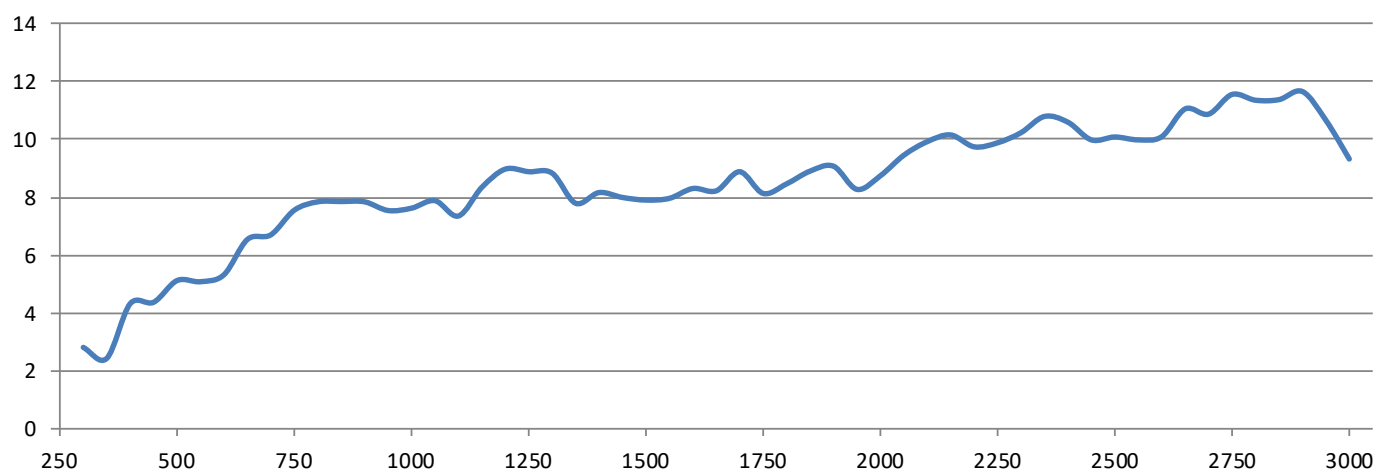
# Specifications

## PowerLOG® PRO 30300

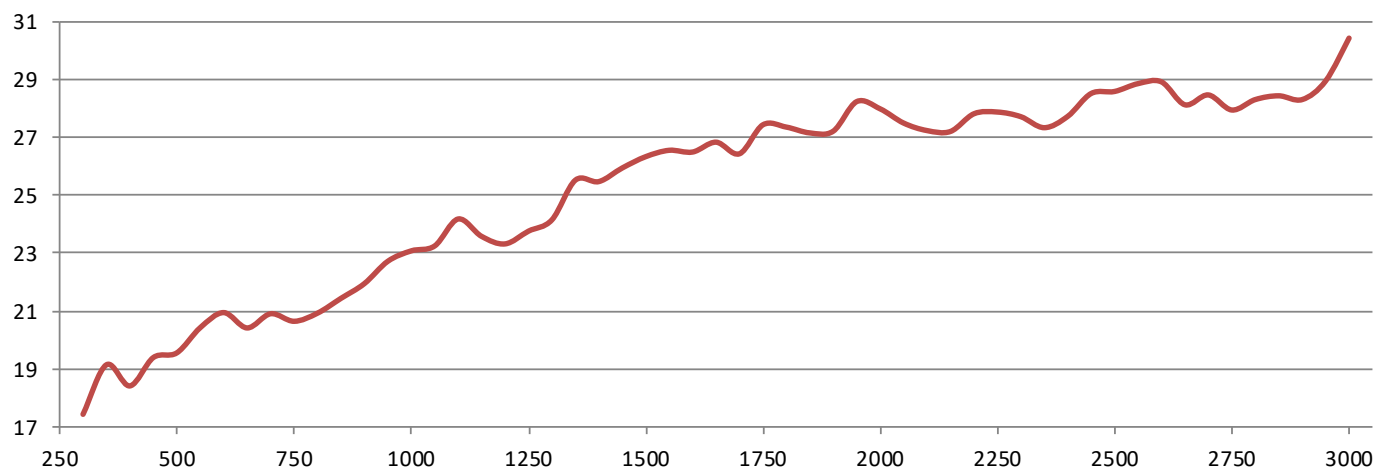
|                        |                             |                   |                 |
|------------------------|-----------------------------|-------------------|-----------------|
| Dimensions [L x W x D] | 510 x 507 x 507 mm          | Nominal Impedance | 50 Ohm          |
| Weight                 | 8800 g                      | VSWR (typ.)       | < 2,5:1         |
| Design                 | Quad-ridged horn            | Max. Input Power  | 500 W           |
| Gain                   | up to 12 dBi                | Temperature Range | - 10° C – 60° C |
| RF Connection          | 2 x N (f) connections (H+V) | Relative Humidity | 10 % – 70%      |
| Frequency Range        | 300 MHz - 3 GHz             | Warranty          | 2 years         |

Specific calibration data included

### Gain Diagram PowerLOG® PRO 30300



### Antenna Factor Diagram PowerLOG® PRO 30300



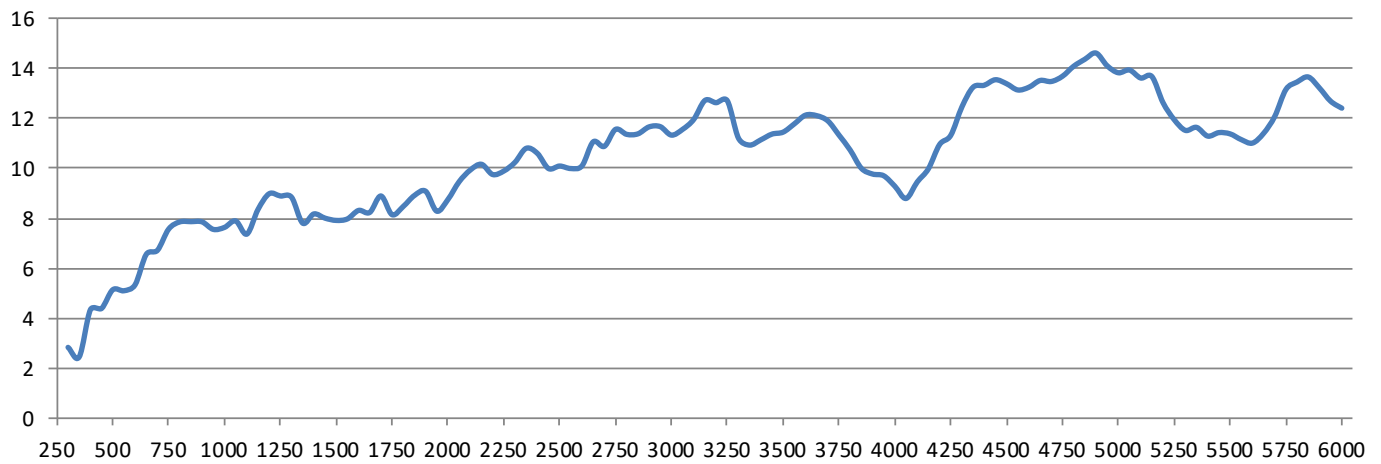
# Specifications

## PowerLOG® PRO 30800

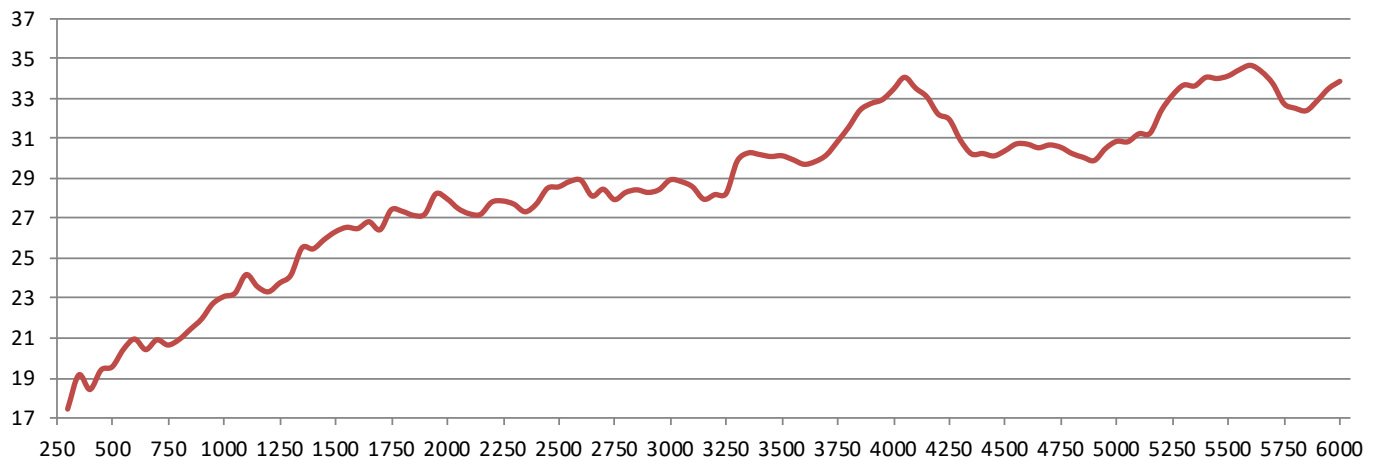
|                        |                                             |                   |                 |
|------------------------|---------------------------------------------|-------------------|-----------------|
| Dimensions [L x W x D] | 510 x 507 x 507 mm                          | Nominal Impedance | 50 Ohm          |
| Weight                 | 8800 g                                      | VSWR (typ.)       | < 2,5:1         |
| Design                 | Quad-ridged horn                            | Max. Input Power  | 500 W           |
| Gain                   | up to 14 dBi                                | Temperature Range | - 10° C – 60° C |
| RF Connection          | 2 x N (f) connections (H+V)                 | Relative Humidity | 10 % – 70%      |
| Frequency Range        | 300 MHz – 8 GHz<br>(calibrated up to 6 GHz) | Warranty          | 2 years         |

Specific calibration data included

### Gain Diagram PowerLOG® PRO 30800



### Antenna Factor Diagram PowerLOG® PRO 30800



# Recommended Accessories



## 1 m / 5 m / 10 m SMA Cable with Locking Nut

Same as above, but with an extremely practical locking nut for easy installation with no additional tools. All versions available as: SMA plug (male) / SMA plug (male) (requires SMA to N Adapter for connection to PowerLOG).

**Order/Art.-No.: 771X (1 m), 772X (5 m), 773X (10 m)**

## 1 m / 5 m / 10 m SMA Cable

High-quality special SMA cable, connecting test equipment to any PowerLOG® antenna. Customers can choose between three different cables:

- 1 m standard SMA cable (RG316U)
  - 5 m low-loss SMA cable (especially low damping)
  - 10 m low-loss SMA cable (especially low damping)
- All versions: SMA plug (male) / SMA plug (male)

**Order/Art.-No.: 771 (1 m), 772 (5 m), 773 (10 m)**

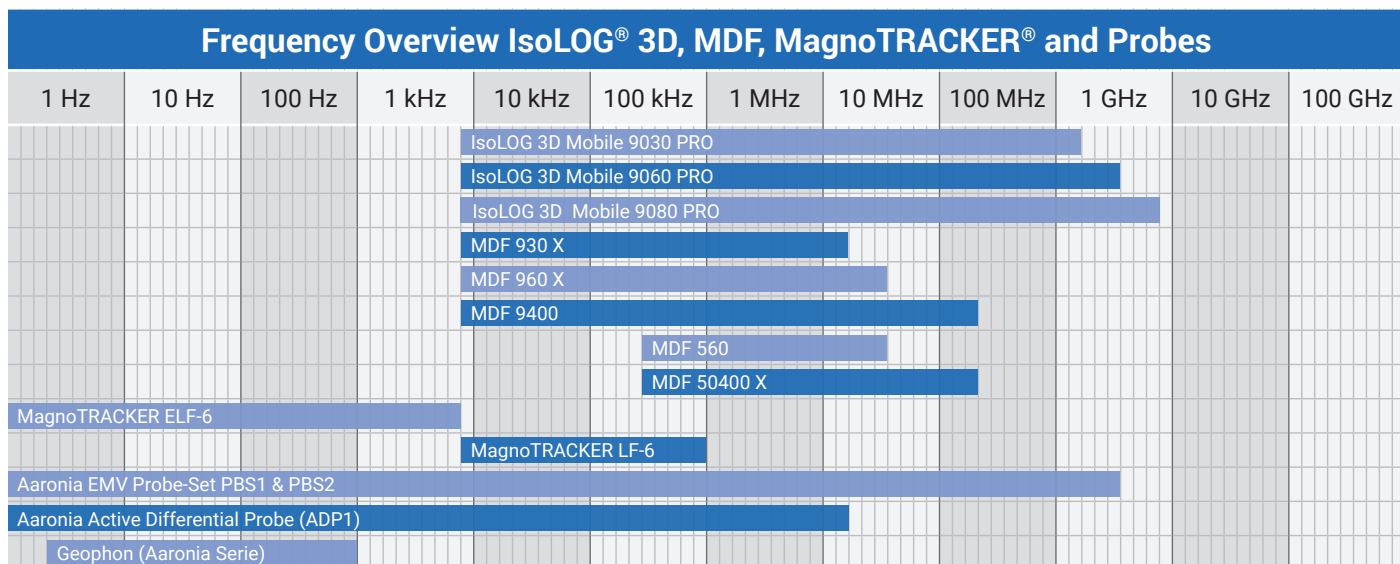
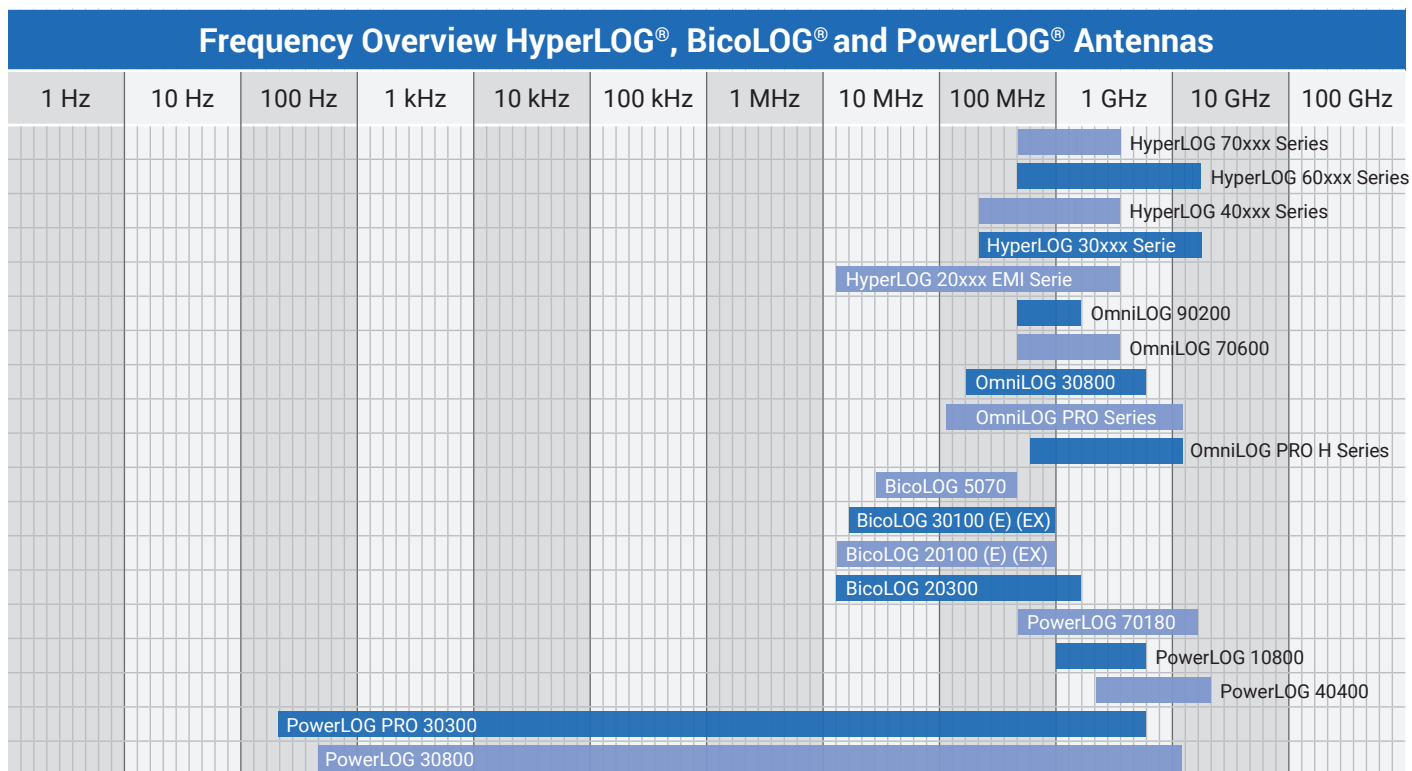


## SMA to N Adapter

This special high-quality adapter allows for operating all PowerLOG® antennas with any standard spectrum analyzer equipped with an N connector. This adapter can be used with very high frequencies. Measuring just 30 x 20 mm in size, its nominal impedance is 50 Ohm. Layout: SMA socket (female) / N plug (male).

**Order/Art.-No.: 770**

# Frequency Overviews



# REFERENCES



## Selected Aaronia Clients

### 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 Science (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
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- VIAVI, Korea
- Wilkinson Sword, Germany
- IBM Deutschland, Germany
- Nokia-Siemens Networks, Germany

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