Active Differential Probe ADP1

Conductive EMC measurements from DC to 40MHz

References

◆ Fraunhofer FHR in Wachtberg, Germany
◆ Siemens AG in Berlin, Germany
◆ Schweizerische Bundesbahn in Bern, Switzerland
◆ Deutsche Flugsicherung in Langen, Germany
◆ Fachhochschule Südwestfalen in Iserlohn, Germany
◆ Technical University in Dresden, Germany
◆ Daimler AG in Sindelfingen, Germany
◆ EnBW in Neckarwestheim, Germany
◆ Johannes-Gutenberg University in Mainz, Germany
◆ Hochschule Harz in Wernigerode, Germany

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Details

Active Differential Probe ADP1

The ADP1 expands the measurement range of the SPECTRAN NF-5030 to 240V. It is a „must have" for any conductive measurement e.g. DSL, power line, circuits etc.

The ADP1 offers a potential free measurement, with this probe the signal will not be influenced. It also protects the SPECTRAN Spectrum Analyzer input against high voltages up to 1400V (CAT3). It is ideally suitable for direct cable measurements on DSL, ADSL, VDSL, free running oscillators, mains and many more.

Included in delivery is a special grounding kit which protects the unit against static electricity (ESD) which is very important for long time measurements.

The Probe can be used with the interal cells (4x AA) or, for long time measurements, with an optional mains adapter (not included).

Every Differential Probe goes through rigorous testing in our laboratories before shipment.

Technical data

- ◆ **Perfectly fits to SPECTRAN NF-5030 Spectrum Analyzers**
- ◆ **Design**: Active Differential Probe
- ◆ **Frequency range**: DC - 40MHz
- ◆ **Attenuation ratio**: 1:100 and 1:1000
- ◆ **Input impedance:**: 54MOhm / 1,2pF
- ◆ **Rise Time**: 14nS (x100), 7nS (x1000)
- ◆ **Accuracy**: +/- 1%
- ◆ **Max. Input Voltage at 1:100**: 140V Differential / 1400V (CAT III)
- ◆ **Max. Input Voltage at 1:1000**: 1400V Differential / 1400V (CAT III)
- ◆ **CMRR (typical)**: -80dB @60Hz, -60dB @100Hz
- ◆ **RF connection**: SMA (m)
- ◆ **Power requirements**: 4x AA cells (not included) or external 9V DC power supply (included)
- ◆ **Dimensions**: 165x69x26mm
- ◆ **Weight**: 500gr
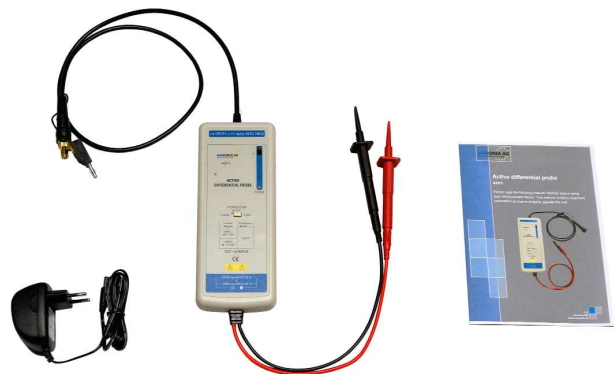
Included in delivery

References

User of Aaronia Antennas and Spectrum Analyzers (Examples)

Government, Military, Aeronautic, Astronautic

- NATO, Belgium
- Department of Defense, USA
- Department of Defense, Australia
- Airbus, Germany
- Boeing, USA
- Bundeswehr, Germany
- NASA, USA
- Lockheed Martin, USA
- Lufthansa, Germany
- DLR,Germany
- Eurocontrol, Belgium
- EADS, Germany
- DEA, USA
- FBI, USA
- BKA, Germany
- Federal Police, Germany
- Ministry of Defense, Netherlands

Research/Development, Science and Universities

- MIT - Physics Department, USA
- California State University, USA
- Indonesien Institute of Sience, Indonesia
- Los Alamos National Labratory, 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 Institute for Radio Astronomy, Germany
- Max-Planck Institute for Quantum Optics, Germany
- Max-Planck-Institute for Nuclear Physics, Germany
- Max-Planck-Institute for Iron Research, Germany
- Research Centre Karlsruhe, Germany

Industry

- APPLE, USA
- 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, Germany
- RTL Television, Germany
- Pro Sieben – SAT 1, Germany
- Channel 6, United Kingdom
- CNN, USA
- Duracell, USA
- German Telekom, Germany
- Bank of Canada, Canada
- NBC News, USA
- Sony, Germany
- Anritsu, Germany
- Hewlett Packard, Germany
- Robert Bosch, Germany
- Mercedes Benz, Austria
- Osram, Germany
- DEKRA, Germany
- AMD, Germany
- Keysight, China
- Infineon Technologies, Germany
- Philips Semiconductors, Germany
- Hyundai Europe, Germany
- JDSU, Korea
- Wilkinson Sword, Germany
- IBM Deutschland, Germany
- Nokia-Siemens Networks, Germany