

Rev 1.1
19.09.2014

Active Differential Probe ADP1

Conductive EMC measurements from DC to 30MHz

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



Made in Germany



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 internal 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.



The ADP 1 used with the SPECTRAN NF-5030 for DSL measurements

Technical data

- ◆ Perfectly fits to SPECTRAN NF-5030 Spectrum Analyzers
- ◆ **Design:** Active Differential Probe
- ◆ **Frequency range:** DC - 30MHz
- ◆ **Attenuation ratio:** 1:20 and 1:200
- ◆ **Input impedance:** 4M Ω / 5,5pF
- ◆ **Rise Time:** 14nS
- ◆ **Accuracy:** +/- 2%
- ◆ **Max. Input Voltage at 1:20:** 140V Differential / 1400V (CAT III)
- ◆ **Max. Eingangsspannung bei 1:200:** 1400V Differential / 1400V (CAT III)
- ◆ **Noise:** 0,7mV RMS
- ◆ **CMRR (typical):** -80dB @50Hz, -60dB @20kHz
- ◆ **RF connection:** SMA (m)
- ◆ **Power requirements:** 4x AA cells (included) or external 6-9V DC power supply
- ◆ **Dimensions:** 170x62x20mm
- ◆ **Weight:** 430gr
- ◆ **Warranty:** 10 years



Included in delivery

References

User of Aeronia Antennas and Spectrum Analyzers (Examples)

Government, Military, Aeronautic, Astronautic

- ◆ NATO, Belgium
- ◆ Boeing, USA
- ◆ Airbus, Germany
- ◆ Bund (Bundeswehr), Germany
- ◆ Bundeswehr (Technische Aufklärung), Germany
- ◆ Lufthansa, Germany
- ◆ DLR (Deutsches Zentrum für Luft- und Raumfahrt, Germany)
- ◆ Eurocontrol (Flugüberwachung), Belgium
- ◆ Australian Government Department of Defence, Australia
- ◆ EADS (European Aeronautic Defence & Space Company) GmbH, Germany
- ◆ Institut für Luft- und Raumfahrtmedizin, Germany
- ◆ Deutscher Wetterdienst, Germany
- ◆ Polizeipräsidium, Germany
- ◆ Landesamt für Umweltschutz Sachsen-Anhalt, Germany
- ◆ Zentrale Polizeitechnische Dienste, Germany
- ◆ Bundesamt für Verfassungsschutz, Germany
- ◆ BEV (Bundesamt für Eich- und Vermessungswesen)

Research/Development, Science and Universitys

- ◆ Deutsches Forschungszentrum für Künstliche Intelligenz, Germany
- ◆ University Freiburg, Germany
- ◆ Indonesien Institute of Science, Indonesia
- ◆ Max-Planck-Institut für Polymerforschung, Germany
- ◆ Los Alamos National Laboratory, USA
- ◆ University of Bahrain, Bahrain
- ◆ University of Florida, USA
- ◆ University Erlangen, Germany
- ◆ University Hannover, Germany
- ◆ University of Newcastle, United Kingdom
- ◆ University Strasbourg, France
- ◆ Universität Frankfurt, Germany
- ◆ University Munich, Germany
- ◆ Technical University Hamburg, Germany
- ◆ Max-Planck Institut für Radioastronomie, Germany
- ◆ Max-Planck-Institut für Quantenoptik, Germany
- ◆ Max-Planck-Institut für Kernphysik, Germany
- ◆ Max-Planck-Institut für Eisenforschung, Germany
- ◆ Forschungszentrum Karlsruhe, Germany

Industry

- ◆ Shell Oil Company, USA
- ◆ ATI, USA
- ◆ Fedex, USA
- ◆ Walt Disney, California, USA
- ◆ Agilent Technologies Co. Ltd., China
- ◆ Motorola, Brazil
- ◆ IBM, Switzerland
- ◆ Audi AG, Germany
- ◆ BMW, Germany
- ◆ Daimler Chrysler AG, Germany
- ◆ BASF, Germany
- ◆ Deutsche Bahn, Germany
- ◆ Deutsche Telekom, Germany
- ◆ Siemens AG, Germany
- ◆ Rohde & Schwarz, Germany
- ◆ Infineon, Austria
- ◆ Philips Technologie GmbH, Germany
- ◆ ThyssenKrupp, Germany
- ◆ EnBW, Germany
- ◆ RTL Television, Germany
- ◆ Pro Sieben – SAT 1, Germany
- ◆ Channel 6, United Kingdom
- ◆ WDR, Germany
- ◆ NDR, Germany
- ◆ SWR, Germany
- ◆ Bayerischer Rundfunk, Germany
- ◆ Carl-Zeiss-Jena GmbH, Germany
- ◆ Anritsu GmbH, Germany
- ◆ Hewlett Packard, Germany
- ◆ Robert Bosch GmbH, Germany
- ◆ Mercedes Benz, Austria
- ◆ EnBW Kernkraftwerk GmbH, Germany
- ◆ AMD, Germany
- ◆ Infineon Technologies, Germany
- ◆ Intel GmbH, Germany
- ◆ Philips Semiconductors, Germany
- ◆ Hyundai Europe, Germany
- ◆ Saarschmiede GmbH, Germany
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