

ROHDE & SCHWARZ

NAP

The Rohde & Schwarz NAP is a highly versatile, classic dual-channel directional power meter designed for high-accuracy RF power and SWR measurements. Operating with the NAP-Z series of directional power sensors, the NAP supports simultaneous measurement of forward and reflected power across transmitter and antenna systems. Features include a combined analog moving-coil and digital LCD display, battery or mains operation, and optional remote control capabilities via GPIB.

SPECIFICATIONS

General

Interfaces	IEEE-488 / GPIB (with Option NAP-B2), Analog Output (with Option NAP-B1)
Display	Analog moving-coil meter and 3.5-digit LCD display

Physical

Power Supply	115 / 230 V AC ($\pm 10\%$), 47 to 440 Hz, power consumption approx. 7 VA; internal rechargeable NiCd battery
Operating Temperature	0 to +50 °C °C
Dimensions (W×H×D)	241 mm × 110 mm × 260 mm mm
Weight	3.5 kg

RF Measurement Specifications

Frequency Range	0.2 to 1000 MHz (sensor-dependent)
Power Measurement Range	0.1 mW to 1100 W (sensor-dependent)
Impedance	50 Ω (sensor-dependent)
Measurement Channels	2 channels (for forward and reflected power)

Measurement Capabilities

Measurement Parameters	Forward power, reflected power, SWR, reflection coefficient, return loss, modulation depth
Modulation Depth Range	0 to 100% (for AM signals)
Power Modes	Average power (CW), Peak Envelope Power (PEP)
Measurement Units	W, dBm, dB

Display and User Interface

Analog Meter Scales	Linear and logarithmic
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Sensor Compatibility

Compatible Sensors	R&S NAP-Z series (e.g., NAP-Z6, NAP-Z7, NAP-Z8, NAP-Z10, NAP-Z11)
Sensor Connector Type	12-pin circular connector

Power Supply and Battery

AC Mains Input Voltage	115 V / 230 V AC (selectable, ±10%)
AC Mains Frequency	47 to 440 Hz
Power Consumption	7 VA
Battery Power Option	Built-in rechargeable NiCd battery
Battery Charger	Integrated automatic charger when connected to mains

Physical and Environmental Specifications

Storage Temperature Range	-40 °C to +70 °C
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Accessories and Options

GPIO Interface Option	NAP-B2
Analog Output Option	NAP-B1

TECHNOLOGY

RF Directional Power Measurement

APPLICATIONS

RF transmitter installation, maintenance, SWR measurement, and power calibration

Generated by SpecAtlasHub (specatlashub.com). Specifications are compiled from available sources and are subject to change — verify critical values against the manufacturer before purchase.