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Data Sheet

August 13, 2026

ROHDE & SCHWARZ

Rohde & Schwarz URV5-Z1 DC Probe

The Rohde & Schwarz URV5-Z1 DC Probe is a precision accessory designed for use with the URV5 series power meters. It enables accurate DC voltage measurements with high impedance and minimal loading effect on the circuit under test. Ideal for applications requiring precise DC voltage readings in electronic circuits and components.



MODEL

Rohde & Schwarz URV5-Z1

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

URV5-Z1

LISTING

<https://aumictechlabs.com/products/urv5-z1-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Rohde & Schwarz URV5-Z1 DC Probe is a precision DC voltage measurement accessory engineered for high-frequency and RF circuit applications. It connects directly to URV5 series power meters and millivoltmeters, delivering stable measurements without circuit loading. The probe's 9 M Ω input impedance and 6 pF input capacitance preserve circuit operating points and eliminate capacitive interaction - critical for active circuit characterization. Measure DC voltages from 0 to 400 V with minimal impact on the circuit under test. Integrated calibration data stored within the probe enables direct connection to compatible Rohde & Schwarz instruments without manual adjustment. The 1.2 m connecting cable, compact 15 mm diameter $\times$ 125 mm length design, and included ground cable, clamp-on tip, and BNC adapter support flexible bench and production setups. Technical Specifications Measurement Type: DC Voltage Voltage Range: 0 to 400 V Maximum Load: 400 V Input Impedance: 9 M Ω Input Capacitance: 6 pF Physical Dimensions: 15 mm diameter $\times$ 125 mm length Weight: 80 g Connecting Cable Length: 1.2 m

Operating Temperature Range: 18°C to 28°C

Key Features

- High input impedance (9 MΩ) minimizes loading on the circuit under test
- Low input capacitance (6 pF) reduces unwanted circuit interactions in RF applications
- Non-loading design maintains circuit operating point stability during measurement
- Integrated probe-specific calibration data enables plug-and-use operation with compatible instruments
- Broad measurement capability across 0–400 V range

Typical Applications

- RF and high-frequency circuit measurements
- Active circuit DC voltage characterization
- Power meter and millivoltmeter extensions

Compatibility & Integration

Primary compatibility with Rohde & Schwarz URV5 series power meters and millivoltmeters. Functional with URV55 millivoltmeter and NRV series power meters. Supplied with ground cable, clamp-on tip, and BNC adapter.

Features & description

From manufacturer datasheet

Features

- Very low 3 pF input capacitance versus typical DMM probes
- Plug-and-play sensor identification via the meter calibration memory interface
- 20 dB divider: 100 V / 1 pF class; 40 dB divider: 1000 V / 0.5 pF class (URV-Z6)
- BNC male interface to the meter
- Specified 18 C to 28 C uncertainty plus residual temperature effect after internal correction

Applications

- High-impedance DC measurements on RF and microwave modules
- Bias and operating-point checks without shifting the circuit
- Level measurements in 50 ohm lines via the BNC adapter
- Service and lab work with URV35, URV55, NRVS, and NRVD meters

URV5Z1 Characteristics / Specifications

PARAMETER	VALUE
Model	URV5-Z1
Manufacturer	Rohde & Schwarz
Instrument Type	DC voltage probe
Alias	URV5 Z1; R&S URV5-Z1
Order Number	0395.0512.02
Voltage Range	1 mV to 400 V
Maximum Peak Voltage	400 V peak
Input Capacitance	3 pF
Input Resistance	9 MΩ
RF Connector	BNC male
Supplied Accessories	ground cable, clip-on tip, BNC adapter
Uncertainty 1 mV to 100 V	plus/minus 0.013 dB (plus/minus 0.15 percent)
Uncertainty 100 V to 400 V	plus/minus 0.030 dB (plus/minus 0.35 percent)
Uncertainty Temperature Window	18 C to 28 C, spectrally pure DC
Zero Offset	plus/minus 0.5 mV
Display Noise	negligible (OEM DC probe note)
Temperature Effect 10 C to 40 C	0.02 dB (0.25 percent)
Temperature Effect 0 C to 50 C	0.04 dB (0.5 percent)
Compatible Meters	URV35, URV55, URV5, NRVS, NRVD, NRV
Related RF Probe	URV5-Z7, 200 μV to 10 V, 20 kHz to 1 GHz
Related 10 V Insertion Unit	URV5-Z2, 200 μV to 10 V, 9 kHz to 3 GHz
Related 100 V Insertion Unit	URV5-Z4, 2 mV to 100 V, 100 kHz to 3 GHz
Divider Accessory Set	URV-Z6, 20 dB and 40 dB plug-on dividers
Divider 20 dB Class	100 V / 1 pF
Divider 40 dB Class	1000 V / 0.5 pF

PARAMETER	VALUE
Sensor Interface	active interface to URV / NRV series
Measurement Type	DC voltage only (not an RF power sensor) Notes Specs from the R&S URV5-Z voltage sensor data sheet. This file is the DC probe only, not URV5-Z2/Z4 insertion units or URV5-Z7 RF probe. Confirm meter firmware recognizes the probe ID and perform zero before low-millivolt work.
20 dB divider	100 V / 1 pF class; 40 dB divider: 1000 V / 0.5 pF class (URV-Z6)

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications	
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Measurement Type	DC voltage only (not an RF power sensor)

Notes

Specs from the R&S URV5-Z voltage sensor data sheet. This file is the DC probe only, not URV5-Z2/Z4 insertion units or URV5-Z7 RF probe. Confirm meter firmware recognizes the probe ID and perform zero before low-millivolt work.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.