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Data Sheet

August 12, 2026

ROHDE & SCHWARZ

Rohde and Schwarz RT-ZD10 Active Voltage Probe, 1 GHz, Differential

Rohde & Schwarz Laboratory Measurement Instruments. Bandwidth: DC to 1.0 GHz, Voltage: ± 5 V between signal sockets (with ± 5 V offset co.



MODEL

**Rohde & Schwarz
RT-ZD10**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

RT-ZD10

LISTING

[https://aumictechlabs.c
om/products/rt-zd10-2/](https://aumictechlabs.com/products/rt-zd10-2/)

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Rohde & Schwarz RT-ZD10 is an active differential voltage probe delivering 1 GHz bandwidth for high-precision measurements of high-speed signals. The 10:1 attenuation probe minimizes loading effects on the device under test while maintaining excellent signal fidelity. Its integrated R&S probe interface enables direct connection to compatible Rohde & Schwarz oscilloscopes, providing automated control, data display, and integrated high-precision DC voltmeter functionality via the instrument's software. Technical Specifications Bandwidth: DC to 1.0 GHz Attenuation: 10:1 Input Impedance: 1 M Ω , 0.6 pF (0.3 pF with RT-ZA15 external attenuator) DC Input Resistance System: 500 Ω $\pm$ 1% Maximum Input Voltage: ± 5 V between signal sockets (with ± 5 V offset compensation); ± 8 V each signal socket to ground (with ± 22 V offset compensation); ± 60 V DC / ± 42.4 V AC peak with RT-ZA15 external attenuator Dynamic Range (differential): ± 5 V with ± 5 V offset capability Step Response (10%–90%): < 60 ps Cable Length: 1.2 m Probe Interface: Rohde & Schwarz probe interface with male 7 mm BNC connector and six pogo pins Key

Features High common mode rejection ratio for accurate differential measurements across large common mode voltages Low capacitive loading maintains signal integrity on high-impedance circuits Integrated R&S ProbeMeter high-precision DC voltmeter Micro button on probe head for remote instrument control Includes RT-ZA15 external attenuator for extended voltage measurement range Very low added noise floor Compatibility & Integration Designed for seamless integration with Rohde & Schwarz oscilloscope platforms: RTM3000, RTA4000, RTE1000, and RTO2000 series. The proprietary probe interface delivers supply voltage, analog signal transmission, and digital control data through a single connection, eliminating the need for auxiliary power or separate control leads.

Features & description

From manufacturer datasheet

Features

- Bandwidth: DC to 1.0 GHz (from rise time)
- Rise time (10%–90%): <350 ps
- Attenuation: 10:1; error $\pm 0.5\%$ after digital correction
- Diff. input R/C: $1\text{ M}\Omega \parallel 0.6\text{ pF}$ (between signal sockets); $500\text{ k}\Omega / 0.8\text{ pF}$ each to GND
- Dynamic range (diff.): $\pm 5\text{ V}$ (+ offset); offset $\pm 5\text{ V}$
- Operating window each pin to GND: $\pm 8\text{ V}$; CM offset $\pm 22\text{ V}$ (SN ≥ 200000 class)
- Non-destructive: $\pm 30\text{ V}$ DC peak each signal to ground
- Noise (ref. probe input): 1.7 mV RMS (meas.)
- CMRR: >50 dB DC–10 kHz; 40 dB (10 kHz–1 MHz); 30 dB (1 MHz–1 GHz); 20 dB >1 GHz (meas. bands)
- Propagation delay: 5.5 ns (meas.); slew $\sim 60\text{ V/ns}$ (meas.)
- ProbeMeter: $\pm 0.1\%$ of reading $\pm 2\text{ mV}$ (+15...+35 °C) diff/CM
- With RT-ZA15: system 100:1; BW still 1.0 GHz; diff. range $\pm 50\text{ V}$; window $\pm 60\text{ V}$; C_{in} 1.3 pF between sockets

RTZD10 Characteristics / Specifications

PARAMETER	VALUE
Model	RT-ZD10
Manufacturer	Rohde & Schwarz
Instrument Type	Active Differential Voltage Probe
Alias	RT-ZD10; R&S RT-ZD10; order 1410.4715.02 Electrical
Bandwidth	DC to 1.0 GHz (from rise time)
Rise time	<350 ps
Attenuation	10:1; error $\pm 0.5\%$ after digital correction
Diff. R/C	1 M Ω / 0.6 pF
Dynamic range	± 5 V; offset ± 5 V
Rise time (10%–90%)	<350 ps
Diff. input R/C	1 M Ω 0.6 pF (between signal sockets); 500 k Ω / 0.8 pF each to GND
Dynamic range (diff.)	± 5 V (+ offset); offset ± 5 V
Operating window each pin to GND	± 8 V; CM offset ± 22 V (SN ≥ 200000 class)
Non-destructive	± 30 V DC peak each signal to ground
Noise (ref. probe input)	1.7 mV RMS (meas.)
CMRR	>50 dB DC–10 kHz; 40 dB (10 kHz–1 MHz); 30 dB (1 MHz–1 GHz); 20 dB >1 GHz (meas. bands)
Propagation delay	5.5 ns (meas.); slew ~ 60 V/ns (meas.)
ProbeMeter	$\pm 0.1\%$ of reading ± 2 mV (+15...+35 °C) diff/CM
With RT-ZA15	system 100:1; BW still 1.0 GHz; diff. range ± 50 V; window ± 60 V; Cin 1.3 pF between sockets

RTZD10 Specifications

PARAMETER	VALUE
Applications	Differential and single-ended probing to 1 GHz; high CMRR measurements; ProbeMeter DC/CM checks on R&S oscilloscopes.
Key Features	- Bandwidth: DC to 1.0 GHz (from rise time)
Technical Specifications	Model: RT-ZD10
Electrical	Bandwidth: DC–1.0 GHz

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

Specifications

PARAMETER	VALUE
Model	RT-ZD10
Manufacturer	Rohde & Schwarz
Instrument Type	Active Differential Voltage Probe
Alias	RT-ZD10; R&S RT-ZD10; order 1410.4715.02

Electrical

Electrical

PARAMETER	VALUE
Bandwidth	DC-1.0 GHz
Rise time	<350 ps
Attenuation	10:1
Diff. R/C	1 MΩ / 0.6 pF
Dynamic range	±5 V; offset ±5 V

Non-destruct: ±30 V

Notes

Specs from R&S RT-Zxx High Bandwidth Probes datasheet and RT-ZD10/20/30 user manual. Confirm order number, serial, and RT-ZA15 inclusion on the unit.

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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30-day returns
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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.