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Data Sheet

August 12, 2026

ROHDE & SCHWARZ

Rohde and Schwarz RT-ZS20 Active Voltage Probe, DC to 1.5 GHz, Single-Ended

The Rohde & Schwarz RT-ZS20 is an active voltage probe designed for oscilloscopes. It features a bandwidth from DC to 1.5 GHz and is single-ended. It offers high impedance and low input capacitance for accurate measurements. Ideal for high-speed signal analysis in various electronic applications.



MODEL

**Rohde & Schwarz
RT-ZS20**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

RT-ZS20

LISTING

<https://aumictechlabs.com/products/rt-zs20-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Rohde & Schwarz RT-ZS20 is a single-ended active voltage probe designed for ground-referenced measurements from DC to 1.5 GHz. It minimizes loading on the Device Under Test through high input impedance and delivers precise signal acquisition with low noise performance. Built-in probe correction - gain, delay, and offset - is stored in integrated data memory and automatically applied by compatible R&S oscilloscopes, eliminating manual calibration steps. A micro button enables direct oscilloscope control, while the integrated R&S ProbeMeter displays measured values on-screen. The probe ships with a comprehensive accessory set for reliable connection across diverse DUT configurations.

Technical Specifications
Bandwidth: DC to 1.5 GHz
Rise Time: 250 ps
Input Impedance: $1\text{ M}\Omega \parallel 0.3\text{ pF}$ or $1\text{ M}\Omega \parallel 0.8\text{ pF}$
Input Capacitance: 0.3 pF or 0.8 pF
Maximum Input Voltage: $\pm 8\text{ V}$ (DC + peak AC), 30 V maximum
Attenuation Factor: 10:1

Attenuation Error: $\pm 0.5\%$ Propagation Delay: 5.5 ns Offset Compensation Range: ± 0.6 V Cable Length: 1.1 m, 1.2 m, or 1.3 m Connector: SMA and BNC Probe Interface: Rohde & Schwarz standard with 7 mm BNC and six pogo pins

Key Features Single-ended design simplifies measurement setup and oscilloscope integration Integrated offset compensation for stable baseline measurements Low-noise front end resolves small-signal details with high fidelity High input impedance minimizes circuit loading and signal distortion Automatic probe correction via stored calibration parameters R&S ProbeMeter for real-time voltage display on oscilloscope screen Micro button for convenient oscilloscope control

Typical Applications Digital and analog circuit voltage measurements to 1.5 GHz Ground-referenced signal acquisition in high-speed designs Low-distortion measurements requiring minimal DUT loading

Compatibility & Integration Fully compatible with Rohde & Schwarz RTx Series, RTM/RTE/RTO 1 GHz Series, RT-ZA9 Series, TM3000, RTA4000, MXO 4, RTE, RTO6, and RTP Series oscilloscopes.

Features & description

From manufacturer datasheet

Features

• Bandwidth: DC to 1.5 GHz (rise time <250 ps, 10%–90%) • Attenuation: 10:1 • Input resistance: 1 M Ω • Input capacitance: 0.8 pF • Dynamic range: ± 8 V with ± 12 V offset; 16 V AC V_{pp} • Maximum non-destructive input: ± 30 V • ProbeMeter measurement error: <0.1% • Propagation delay: 5.5 ns (meas.) • Cable length: ~1.2 m • Interface: R&S probe interface; micro button; ProbeMeter • Order number: 1410.3502.02

RTZS20 Characteristics / Specifications

PARAMETER	VALUE
Model	RT-ZS20
Manufacturer	Rohde & Schwarz
Instrument Type	Single-Ended Active Voltage Probe
Alias	RT-ZS20; R&S RT-ZS20; 1410.3502.02 Electrical
Bandwidth	DC to 1.5 GHz (rise time <250 ps, 10%–90%)
Rise time	<250 ps
Input	1 MΩ 0.8 pF
Dynamic range	±8 V with ±12 V offset; 16 V AC Vpp
Attenuation	10:1 Notes Specs from R&S RT-ZS10/20/30 user manual / RT-Zxx high-bandwidth probe datasheet. Listing correctly states single-ended DC–1.5 GHz. Confirm accessories and R&S interface compatibility with the host scope.
Input resistance	1 MΩ
Input capacitance	0.8 pF
Maximum non-destructive input	±30 V
ProbeMeter measurement error	<0.1%
Propagation delay	5.5 ns (meas.)
Cable length	~1.2 m
Interface	R&S probe interface; micro button; ProbeMeter
Order number	1410.3502.02

RTZS20 Specifications

PARAMETER	VALUE
Key Features	- Bandwidth: DC to 1.5 GHz (rise time <250 ps, 10%–90%)
Technical Specifications	Model: RT-ZS20
Electrical	Bandwidth: DC–1.5 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-ZS20
Manufacturer	Rohde & Schwarz
Instrument Type	Single-Ended Active Voltage Probe
Alias	RT-ZS20; R&S RT-ZS20; 1410.3502.02

Electrical

Electrical

PARAMETER	VALUE
Bandwidth	DC-1.5 GHz
Rise time	<250 ps
Input	1 MΩ 0.8 pF
Dynamic range	±8 V; offset ±12 V

Non-destruct: ±30 V

Attenuation: 10:1

Notes

Specs from R&S RT-ZS10/20/30 user manual / RT-Zxx high-bandwidth probe datasheet. Listing correctly states single-ended DC-1.5 GHz. Confirm accessories and R&S interface compatibility with the host scope.

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.