R&S®RT-Zxx HIGH VOLTAGE AND CURRENT PROBES

Specifications



Mess- und Prüftechnik. Die Experten.

Ihr Ansprechpartner / Your Partner:

dataTec AG

E-Mail: info@datatec.eu

>>> www.datatec.eu



Specifications | Version 31.00

ROHDE&SCHWARZ

Make ideas real



CONTENTS

Definitions	4
Probe/oscilloscope chart	5
R&S®RT-ZH03 high voltage passive probe	8
R&S®RT-ZH10/-ZH11 high voltage passive probes	10
R&S®RT-ZI10(C)/-ZI11 isolated probes	13
R&S®RT-ZISO isolated probing system	17
R&S®ZISO-Z1xx probe tip modules	25
R&S®ZISO-Z2xx probe tip modules	27
R&S®ZISO-Z3xx probe tip modules	30
R&S®RT-ZD002/-ZD003 high voltage differential probes (discontinued products)	33
R&S®RT-ZD02/-ZD08 high voltage differential probes (discontinued products)	36
R&S®RT-ZHD07 high voltage differential probe	38
R&S®RT-ZHD15/-ZHD16 high voltage differential probe	43
R&S®RT-ZHD60 high voltage differential probe	47
R&S®RT-ZC02/-ZC03 current probes	51
R&S®RT-ZC05B/-ZC10(B)/-ZC15B/-ZC20(B)/-ZC30 current probes	55
R&S®RT-ZC31 current probe	60

R&S®RT-ZA13 probe power supply	. 63
Ordering information	. 64
Warranty and service	. 69

Definitions

General

Product data applies under the following conditions:

- Three hours of storage at ambient temperature followed by 30 minutes of warm-up operation
- · Specified environmental conditions met
- Recommended calibration interval adhered to

Specifications with limits

Represent warranted product performance by means of a range of values for the specified parameter. These specifications are marked with limiting symbols such as <, >, >, \ge , \pm or descriptions such as maximum, limit of, minimum. Compliance is ensured by testing or is derived from the design. Test limits are narrowed by guard bands to take into account measurement uncertainties, drift and aging, if applicable.

Specifications without limits

Represent warranted product performance for the specified parameter. These specifications are not specially marked and represent values with no or negligible deviations from the given value, e.g. dimensions or resolution of a setting parameter. Compliance is ensured by design.

Typical data (typ.)

Characterizes product performance by means of representative information for the given parameter. When marked with <, > or as a range, it represents the performance met by approximately 80 % of the instruments at production time. Otherwise, it represents the mean value.

Measured values (meas.)

Characterize expected product performance by means of measurement results gained from individual samples.

Typical data as well as measured values are not warranted by Rohde & Schwarz.

4 Rohde & Schwarz R&S®RT-Zxx High Voltage and Current Probes

Probe/oscilloscope chart

Base unit	Probe interface	R&S®RTC1000	R&S [®] RTB 2	R&S®RTM3000	R&S®RTA4000	MXO 3 MXO 4 MXO 5	R&S®RTO	R&S®RTP	R&S®RTH	Page
Passive probes						'				
R&S®RT-ZH03	BNC, 1 MΩ	•	•	•	•	•	•			8
R&S®RT-ZH10		0	0	•	•	•	•			10
R&S®RT-ZH11	DNO 4 MO	0	0	•	•	•	•			10
R&S®RT-ZI10	BNC, 1 MΩ, readout								•	13
R&S®RT-ZI10C	readout								•	13
R&S®RT-ZI11									•	13

Base unit	Probe interface	R&S®RTC1000	R&S®RTB 2	R&S®RTM3000	R&S®RTA4000	MXO 3 MXO 4 MXO 5	R&S®RTO	R&S®RTP	R&S®RTH	Page
Differential probes										
R&S®RT-ZISO	Rohde & Schwarz or BNC, 50 Ω ¹	0	0	0	0	•	•	•		17
R&S®RT-ZD002 ²	DNC 1 MO	•	•	0	0	0	0			33
R&S®RT-ZD003 ²	BNC, 1 MΩ	•	•	0	0	0	0			33
R&S®RT-ZD02 ²	BNC, 50 Ω ¹	0	0	•	•	•	•	•		36
R&S®RT-ZD08 ²	DINC, 50 Ω	0	0	•	•	•	0	•		36
R&S®RT-ZHD07				•	•	•	•			38
R&S®RT-ZHD15	Rohde & Schwarz,			•	•	•	•			43
R&S®RT-ZHD16	1 ΜΩ			•	•	•	•			43
R&S®RT-ZHD60				•	•	•	•			47

1 Probe requires 50 Ω input coupling. It can be attached to oscilloscopes with 1 MΩ input coupling using a BNC feedthrough termination adapter.

² Discontinued product.

Base unit	Probe interface	R&S®RTC1000	R&S®RTB 2	R&S®RTM3000	R&S®RTA4000	MXO 3 MXO 4 MXO 5	R&S®RTO	R&S®RTP	R&S®RTH	Page
Current probes										
R&S®RT-ZC02		•	•	0	0	0	0		•	51
R&S®RT-ZC03		•	•	0	0	0	0		•	51
R&S®RT-ZC10	BNC, 1 MΩ	•	•	0	0	0	0		0	55
R&S®RT-ZC20	DING, I WILL	•	•	0	0	0	0		0	55
R&S®RT-ZC30		•	•	•	•	•	•		0	55
R&S®RT-ZC31		•	•	•	•	•	•		0	60
R&S®RT-ZC05B				•	•	•	•			55
R&S®RT-ZC10B	Rohde & Schwarz,			•	•	•	•			55
R&S®RT-ZC15B	1 ΜΩ			•	•	•	•			55
R&S®RT-ZC20B				•	•	•	•			55

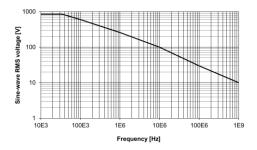
recommended extra

o possible accessory, with limited functionality of probe or base unit

R&S®RT-ZH03 high voltage passive probe

All parameters are valid when the probe is connected to an appropriate Rohde & Schwarz oscilloscope with an input impedance of 1 $M\Omega$. See table on page 5 and Rohde & Schwarz oscilloscope operating manual for more details.

		R&S®RT-ZH03
Step response		
Rise time	system, 10 % to 90 %	1.4 ns (meas.)
Frequency response		
Bandwidth	system, –3 dB, starting at DC	> 250 MHz (meas.)
Input impedance		
DC input resistance	system	100 ΜΩ
Input capacitance	system	6.5 pF (meas.)
DC characteristics		
Attenuation	system, automatically corrected on base unit display	100:1
Attenuation error	probe only, with ideal 1 M Ω load impedance	±2 % (meas.)
Attenuation voltage coefficient		±0.0025 %/V (meas.)
Maximum rated input voltage		
Continuous voltage	derated, see figure on page 9	850 V (RMS)
Transient overvoltage		±1200 V
Base unit	·	
Input capacitance	must be compensated by probe's	10 pF to 50 pF
	LF compensation	
Input coupling	AC/DC	1 ΜΩ



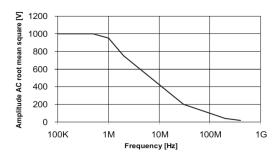
R&S®RT-ZH03 maximum rated sine-wave root mean square voltage versus frequency

Temperature		
Temperature loading	operating temperature range	0 °C to +40 °C
Climatic loading		80 % relative humidity without condensation
Altitude	operation	up to 2000 m
Safety		in line with
		Low Voltage Directive 2014/35/EU, IEC/EN 61010-031 (pollution degree 2)
RoHS		in line with RoHS Directive 2011/65/EU
Mechanical data		
Dimensions	diameter of probe tip	approx. 5 mm (0.2 in)
	cable length	approx. 1.3 m (51 in)
Weight	probe only	approx. 55 g (0.12 lb)
Probe interface		
Connector		BNC

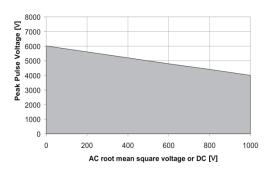
R&S®RT-ZH10/-ZH11 high voltage passive probes

All parameters are valid when the probe is connected to an appropriate Rohde & Schwarz oscilloscope with an input impedance of 1 $M\Omega$. See table on page 5 and Rohde & Schwarz oscilloscope operating manual for more details.

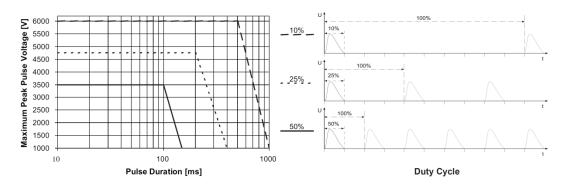
		R&S®RT-ZH10	R&S®RT-ZH11	
Step response				
Rise time	system, 10 % to 90 %	900 ps (meas.)		
Frequency response				
Bandwidth	system, -3 dB, starting at DC	> 400 MHz (meas.)		
Input impedance				
DC input resistance	system	50 MΩ ± 2 %		
Input capacitance	system	7.5 pF (meas.)		
DC characteristics				
Attenuation	system, automatically corrected on base unit display	100:1	1000:1	
Attenuation error	probe only, with ideal 1 $M\Omega$ load impedance	±2 %		
Attenuation voltage coefficient		±0.0005 %/V (meas	s.)	
Maximum rated input voltage				
Continuous voltage	derated, see figures on page 11	1000 V (RMS) CAT	. II	
Transient overvoltage		±4000 V		
Base unit				
Input capacitance	must be compensated by probe's LF compensation	5 pF to 20 pF		
Input coupling	AC/DC	1 ΜΩ		



R&S®RT-ZH10/-ZH11 maximum rated sine-wave root mean square voltage versus frequency, CAT I



R&S®RT-ZH10/-ZH11 maximum root mean square voltage versus peak pulse voltage, CAT I



R&S®RT-ZH10/-ZH11 maximum pulse derating, CAT I

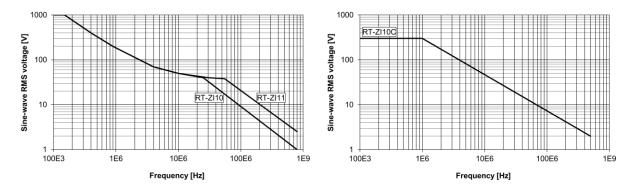
Temperature			
Temperature loading	operating temperature range	0 °C to +50 °C	
-	storage temperature range	-40 °C to +70 °C	
Climatic loading	-	80 % relative humidity for temperatures	
		up to +31 °C,	
		decreasing linearly to 40 % at +50 °C	
Altitude	operation	up to 2000 m	
	transport	up to 15000 m	
Safety		in line with	
		Low Voltage Directive 2014/35/EU,	
		IEC/EN 61010-031 (pollution degree 2)	
RoHS		in line with RoHS Directive 2011/65/EU	
Mechanical data			
Dimensions	diameter of probe tip	approx. 5 mm (0.2 in)	
	cable length	approx. 2 m (79 in)	
Weight	probe only	approx. 67 g (0.15 lb)	
Probe interface			
Connector		BNC with readout	

R&S®RT-ZI10(C)/-ZI11 isolated probes

All parameters are valid when the probe is connected to an appropriate Rohde & Schwarz oscilloscope with an input impedance of 1 M Ω . The R&S RT-ZI10/-ZI11 must be used only with insulated oscilloscopes provided with touch-protected inputs. See table on page 5 and Rohde & Schwarz oscilloscope operating manual for more details.

		R&S®RT-ZI10	R&S®RT-ZI11		
Step response					
Rise time	system, 10 % to 90 %	900 ps (meas.)			
Frequency response					
Bandwidth	system, -3 dB, starting at DC	> 500 MHz (meas	.)		
Input impedance					
DC input resistance	system	10 MΩ ± 1 %	100 MΩ ± 1 %		
Input capacitance	system	12 pF (meas.)	4.6 pF (meas.)		
DC characteristics					
Attenuation	system	10:1 100:1			
Attenuation error	system	±2 %			
Maximum rated input voltage	between probe tip and probe reference terminal	1000 V (RMS) 3540 V (RMS			
	derated, see figure on page 15	1000 V (RMS) CAT III			
		600 V (RMS) CAT IV			
	between probe terminals and earth ground	1000 V (RMS)			
	derated, refer to base unit manual				
Base unit					
Use with		R&S®RTH			
Input capacitance	must be compensated by probe's	10 pF to 22 pF	10 pF to 25 pF		
	LF compensation				
Input coupling	AC/DC	1 ΜΩ			

		R&S®RT-ZI10C
Step response		
Rise time	system, 10 % to 90 %	700 ps (meas.)
Frequency response		
Bandwidth	system, -3 dB, starting at DC	> 500 MHz (meas.)
Input impedance		
DC input resistance	system	10 MΩ ± 1 %
Input capacitance	system	11 pF (meas.)
DC characteristics		
Attenuation	system	10:1
Attenuation error	system	±2 %
Maximum rated input voltage	between probe tip and probe reference terminal derated, see figure on page 15	300 V (RMS) CAT III
	between probe terminals and earth ground derated, refer to base unit manual	300 V (RMS)
Base unit		
Use with		R&S®RTH
Input capacitance	must be compensated by probe's LF compensation	10 pF to 22 pF
Input coupling	AC/DC	1 ΜΩ



R&S®RT-ZI10(C)/-ZI11 maximum rated sine-wave root mean square voltage between probe tip and probe reference terminal versus frequency (CAT III)

Temperature		
Temperature loading	operating temperature range	+5 °C to +40 °C
Climatic loading		80 % relative humidity for temperatures up to +31 °C, decreasing linearly to 40 % at +50 °C
Altitude	operation	up to 2000 m
Safety		in line with Low Voltage Directive 2014/35/EU, IEC/EN 61010-031 (pollution degree 2)
RoHS		in line with RoHS Directive 2011/65/EU
Mechanical data		
Dimensions	diameter of probe tip	approx. 5 mm (0.2 in)
	diameter of reference terminal (R&S®RT-ZI10 and R&S®RT-ZI11 only)	approx. 2 mm (0.08 in)
	cable length	approx. 1.2 m (47 in)
Weight	probe only	approx. 75 g (0.17 lb)
Probe interface		
Connector		BNC, isolated

R&S®RT-ZISO isolated probing system

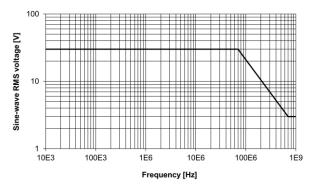
All parameters are valid when the probe is connected to an appropriate oscilloscope with an input impedance of 50Ω . The probe settings are set by the oscilloscope settings (operation via oscilloscope connector cable on an appropriate Rohde & Schwarz oscilloscope) See table on page 5 and Rohde & Schwarz oscilloscope operating manual for more details.

Step response				
Rise time	10 % to 90 %	10 % to 90 %		
	with R&S®ZISO-B901 option	< 4 ns (meas.)		
	with R&S®ZISO-B902 option or -B202 upgrade	< 2 ns (meas.)		
	with R&S®ZISO-B903 option or -B203 upgrade	< 1.14 ns (meas.)		
	with R&S®ZISO-B905 option or -B205 upgrade	< 800 ps (meas.)		
	with R&S®ZISO-B910 option or -B210 upgrade	< 450 ps (meas.)		
Flatness	starting 10 ns after edge	3 % (meas.)		
Propagation delay	incl. oscilloscope connector cable			
	with R&S®ZISO-B403 option (3 m fiber cable)	27 ns (meas.)		
	with R&S®ZISO-B410 option (10 m fiber cable)	63 ns (meas.)		
Frequency response				
Bandwidth	starting at DC, calculated from 0.45/rise time			
	with R&S®ZISO-B901 option	100 MHz		
	with R&S®ZISO-B902 option or -B202 upgrade	200 MHz		
	with R&S [®] ZISO-B903 option or -B203 upgrade	350 MHz		
	with R&S®ZISO-B905 option or -B205 upgrade	500 MHz		
	with R&S®ZISO-B910 option or -B210 upgrade	1 GHz		

Common mode rejection (meas.)	DC	145 dB
	1 MHz	145 dB
	100 MHz	110 dB
	200 MHz	100 dB
	500 MHz	100 dB
	1 GHz	90 dB
Input impedance		
DC input resistance		1 MΩ ± 1 %
Input capacitance		8 pF (meas.)
DC characteristics		
Attenuation	automatically set by oscilloscope vertical setting	0.04:1
	(operation on appropriate Rohde & Schwarz	0.01:1
	oscilloscope, see table on page 5)	0.2:1
		0.4:1
		1:1
		2:1
		4:1
		10:1
		20:1
		40:1
		120:1
Attenuation error	after self-alignment	
	input voltage range > ±0.01 V	±1.5 % full scale
	input voltage range ±0.01 V	±2.5 % full scale
Temperature drift, attenuation		±0.15 %/°C (meas.)
Zero error	after self-alignment (input related)	±0.5 mV ±0.02 × input voltage range

Dynamic range		
Input voltage range	0.04:1	±0.01 V
	0.1:1	±0.025 V
	0.2:1	±0.05 V
	0.4:1	±0.1 V
	1:1	±0.25 V
	2:1	±0.5 V
	4:1	±1 V
	10:1	±2.5 V
	20:1	±5 V
	40:1	±10 V
	120:1	±30 V
Offset compensation range	in all attenuation settings applicable	±30 V
Offset compensation error		±(0.35 % × offset + 0.35 % × input
		voltage range) (meas.)
Operating voltage window	each signal socket to ground, not handheld,	±60 kV
	with 1 m protective distance to probe head	
	handheld in combination with R&S®ZISO-Zxxx	1000 V (RMS) CAT III
	(excl. R&S [®] ZISO-Z301)	
	handheld in combination with R&S®ZISO-Z301	300 V (RMS) CAT III

System noise voltage (meas.)	measured with compatible Rohde & Schwarz oscilloscope						
	(system noise i	is depending o	n oscilloscope	frontend); R&S [®]		
	input voltage	ZISO-B901	ZISO-B902	ZISO-E	3903	ZISO-B905	ZISO-B910
	range	(100 MHz)	(200 MHz)	(350 M	lHz)	(500 MHz)	(1 GHz)
	±0.01 V	107 μV	121 µV	153 μ\	/	172 µV	245 µV
	±0.025 V	140 µV	161 µV	220 μ\	/	252 µV	383 µV
	±0.05 V	211 µV	255 μV	363 µ\	/	417 µV	623 µV
	±0.1 V	382 µV	465 µV	683 µ\	/	780 µV	1.16 mV
	±0.25 V	922 µV	1.13 mV	1.67 m	١V	1.92 mV	2.84 mV
	±0.5 V	1.84 mV	2.26 mV	3.35 m	١V	3.81 mV	5.65 mV
	±1 V	5.90 mV	7.27 mV	9.49 m	ıV	10.9 mV	16.0 mV
	±2.5 V	10.4 mV	12.9 mV	18.3 m	١V	20.9 mV	31.2 mV
	±5 V	18.9 mV	23.5 mV	34.3 m	١V	39.0 mV	58.5 mV
	±10 V	37.0 mV	45.7 mV	67.4 m	١V	77.1 mV	115 mV
	±30 V	110 mV	134 mV	201 m	V	229 mV	342 mV
Maximum rated input voltage							
Continuous voltage	derated, refer t	derated, refer to manual, input inner and outer			1000	1000 V (RMS) CAT III	
	conductor to gr	ound with R&	S®ZISO-Zxxx				
	(excl. R&S®ZIS	(excl. R&S®ZISO-Z301)					
	derated, refer t			ter	300V (RMS) CAT III		
	conductor to ground with R&S®ZISO-Z301						
	derated, see figure on page 21, input inner			30 V (RMS), 42.4 V (peak)	
	conductor to re		nal without				
	R&S®ZISO-Zxxx						
	DC voltage, input inner conductor to reference			±60 V			
	terminal withou	ıt R&S®ZISO-Z	Zxxx				
Base unit							
Input coupling	DC				50 Ω		



R&S®RT-ZISO maximum rated sine-wave root mean square voltage between probe input and probe reference terminal versus frequency

R&S®ProbeMeter

Specifications for measurement error apply only when offset compensation setting is 0 V. The R&S $^{\otimes}$ ProbeMeter can be used to measure differential voltage.

Measurement error				
DC coupling (meas.)	probe head only and with R&S®Z	probe head only and with R&S [®] ZISO-Zxxx (excl. R&S [®] ZISO-Z302)		
	+15 °C to +35 °C	±0.2 % of reading,		
		±0.01 V × tip attenuation		
	0 °C to +40 °C	±0.4 % of reading,		
		±0.02 V × tip attenuation		
	with R&S®ZISO-Z302			
	+15 °C to +35 °C	±0.8 % of reading,		
		±0.01 V × tip attenuation		
	0 °C to +40 °C	±1.6 % of reading,		
		±0.02 V × tip attenuation		
AC coupling (meas.)	probe head only and with R&S®Z	ZISO-Zxxx (excl. R&S [®] ZISO-Z302)		
	+15 °C to +35 °C	±0.4 % of reading,		
		±0.01 V × tip attenuation		
	0 °C to +40 °C	±0.8 % of reading,		
		±0.02 V × tip attenuation		
	with R&S®ZISO-Z302			
	+15 °C to +35 °C	±0.4 % of reading,		
		±0.01 V × tip attenuation		
	0 °C to +40 °C	±1.6 % of reading,		
		±0.02 V × tip attenuation		
Геmperature drift		0.02 %/°C of reading ±2 mV/°C (meas.)		
50 Hz/60 Hz rejection		> 87 dB		
ntegration time		147 ms (typ.)		

Temperature		
Temperature loading	operating temperature range	0 °C to +40 °C
	storage temperature range	-40 °C to +70 °C
Climatic loading		+25 °C/+40 °C cyclic at 95 % relative
		humidity without condensation,
		in line with IEC 60068-2-30
Altitude	operation	up to 2000 m
	transport	up to 4500 m
Mechanical resistance		
Vibration	sinusoidal	5 Hz to 150 Hz, max. 1.8 g at 55 Hz,
		0.5 g from 55 Hz to 150 Hz,
		in line with EN 60068-2-6
	random	8 Hz to 500 Hz,
		acceleration 1.2 g (RMS),
		in line with EN 60068-2-64
Shock		40 g shock spectrum,
		in line with MIL-STD-810G
EMC		in line with EMC Directive 2014/30/EC,
		IEC/EN 61326-1 (table 2),
		IEC/EN 61326-2-1,
		CISPR 11/EN 55011(class A)
Calibration interval		2 years (or 10000 h of operation)
Safety		in line with IEC/EN 61010-1,
		IEC/EN 61010-031, IEC 60825-1
RoHS		in line with RoHS Directive 2011/65/EU
External power supply		100 V to 240 V ±10 % at 50 Hz/60 Hz,
		max. 1.0 A or 1.4 A

Mechanical data			
Dimensions	probe head, without connectors and bend protection (W × H × L)	approx. 50 mm × 40 mm × 172 mm (1.97 in × 1.58 in × 6.77 in)	
	probe receiver, without connectors and	approx. 120 mm × 69 mm × 158 mm	
	bend protection (W × H × L)	(4.72 in × 2.72 in × 6.22 in)	
	fiber cable length		
	R&S®ZISO-B403 option	approx. 3 m (10 ft)	
	R&S®ZISO-B410 option	approx. 10 m (33 ft)	
Weight	probe without accessory	approx. 1.5 kg (3.3 lb)	
	probe with standard accessory (incl. bag)	approx. 3.2 kg (7.1 lb)	
Minimum bend radius of optical fiber		10 cm (4 in)	
Probe interface			
Input socket		SMA (female)	
Connector	via oscilloscope connector cable	Rohde & Schwarz probe interface	
	without oscilloscope connector cable	SMA (female)	

R&S®ZISO-Z1xx probe tip modules

		R&S®ZISO-Z101
Step response		
Rise time	system, 10 % to 90 %	< 450 ps (meas.)
Flatness	starting 10 ns after edge	2 % (meas.)
Frequency response		
Bandwidth	system, –3 dB, starting at DC	> 1 GHz (meas.)
Flatness	1 kHz up to half of the system bandwidth	0.2 dB (meas.)
Common mode rejection (meas.)	DC	145 dB
	1 MHz	120 dB
	100 MHz	100 dB
	200 MHz	95 dB
	500 MHz	95 dB
	1 GHz	80 dB
Input impedance		
DC input resistance	system	50 Ω ± 1 %
Reflection coefficient	system	< -12 dB (meas.)
DC characteristics	•	
Attenuation	system	1.5:1
Attenuation error	system	±2 %
Maximum rated input voltage		
Continuous voltage	between probe tip and probe reference terminal	8 V (RMS)
	between probe terminals and earth	1000 V (RMS) CAT III
	ground	, ,
	derated, refer to base unit manual	
Transient voltage		±45 V (peak)

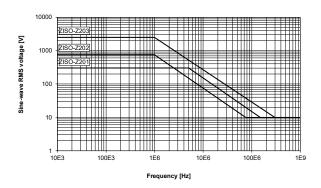
Dynamic range				
Input voltage range ±45 V				
Base unit				
Use with		R&S®RT-ZISO		

Temperature		
Temperature loading	operating temperature range	0 °C to +40 °C
Climatic loading		+25 °C/+40 °C cyclic at 95 % relative
		humidity without condensation,
		in line with IEC 60068-2-30
Altitude	operation	up to 2000 m
Safety		in line with
		Low Voltage Directive 2014/35/EU,
		IEC/EN 61010-031 (pollution degree 2)
RoHS		in line with RoHS Directive 2011/65/EU
Mechanical data		
Dimensions	diameter of probe tip	approx. 5 mm (0.2 in)
	cable length	approx. 37 cm (14.6 in)
Weight	probe only	approx. 75 g (0.17 lb)
Probe input		
Connector		MMCX (male)

R&S®ZISO-Z2xx probe tip modules

		R&S®ZISO-Z201	R&S®ZISO-Z202	R&S®ZISO-Z203
Step response				
Rise time	system, 10 % to 90 %	< 450 ps (meas.)	< 450 ps (meas.)	< 450 ps (meas.)
Flatness	starting 10 ns after edge	2 % (meas.)	2 % (meas.)	2 % (meas.)
Frequency response				
Bandwidth	system, –3 dB, starting at DC	> 1 GHz (meas.)		
Flatness	1 kHz up to half of the system bandwidth	0.2 dB (meas.)		
Common mode rejection (meas.)	DC	145 dB	129 dB	120 dB
, , ,	1 MHz	105 dB	105 dB	98 dB
	100 MHz	85 dB	47 dB	44 dB
	200 MHz	80 dB	43 dB	40 dB
	500 MHz	75 dB	30 dB	28 dB
	1 GHz	60 dB	11 dB	8 dB
Input impedance				
DC input resistance	system	10 MΩ ± 1 %	10 MΩ ± 1 %	40 MΩ ± 1 %
Input capacitance	system	3.7 pF (meas.)	3.5 pF (meas.)	3.2 pF (meas.)
DC characteristics				
Attenuation	system	10:1	25:1	100:1
Attenuation error	system	±2 %		

Maximum rated input volta	ge			
Continuous voltage	between probe tip and probe reference terminal derated, see figure on page 28	300 V (RMS)	750 V (RMS)	2500 V (RMS)
	between probe terminals and earth ground derated, refer to base unit manual	minals and 1000 V (RMS) CAT III ed,		
Transient voltage	between probe tip and reference terminal	±500 V (peak)	±1000 V (peak)	±3500 V (peak)
Dynamic range				
Input voltage range		±300 V	±750 V	±3000 V
Base unit				
Use with		R&S®RT-ZISO		

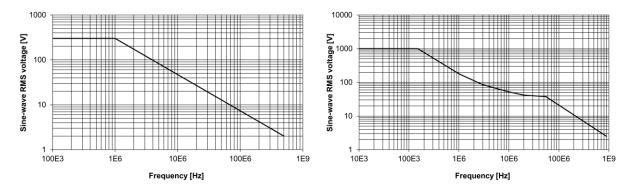


R&S®ZISO-Z201/-Z202/-Z203 maximum rated sine-wave root mean square voltage between probe tip and probe reference terminal versus frequency (CAT III)

Temperature			
Temperature loading	operating temperature range	0 °C to +40 °C	
Climatic loading		+25 °C/+40 °C cyclic at 95 % relative	
		humidity without condensation, in line with IEC 60068-2-30	
Altitude	operation	up to 2000 m	
Safety		in line with	
		Low Voltage Directive 2014/35/EU,	
		IEC/EN 61010-031 (pollution degree 2)	
RoHS	in line with RoHS Directive 2011/65/EU		
Mechanical data			
Dimensions	diameter of probe tip	approx. 5 mm (0.2 in)	
	cable length		
	R&S®ZISO-Z201	approx. 21.5 cm (8.5 in)	
	R&S®ZISO-Z202	approx. 32 cm (12.6 in)	
	R&S®ZISO-Z203	approx. 38 cm (15 in)	
Weight	probe only	approx. 75 g (0.17 lb)	
Probe input			
Connector	R&S®ZISO-Z201	MMCX (male)	
	R&S®ZISO-Z202	SQPIN (2.54 mm (0.1 in), female)	
	R&S®ZISO-Z203	WSQPIN (5.08 mm (0.2 in), female)	

R&S®ZISO-Z3xx probe tip modules

		R&S®ZISO-Z301	R&S®ZISO-Z302
Step response			
Rise time	system, 10 % to 90 %	700 ps (meas.)	900 ps (meas.)
Flatness	starting 10 ns after edge	2 % (meas.)	2 % (meas.)
Frequency response			
Bandwidth	system, –3 dB, starting at DC	> 500 MHz (meas.)	
Input impedance			
DC input resistance	system	10 MΩ ± 1 %	100 MΩ ± 1 %
Input capacitance	system	11 pF (meas.)	4.6 pF (meas.)
DC characteristics			
Attenuation	system	10:1	100:1
Attenuation error	system	±2 %	
Maximum rated input volta	ge		
Continuous voltage	between probe tip and probe reference terminal	300 V (RMS)	3540 V (RMS)
	derated, see figure on page 31		
	between probe terminals and earth ground	300 V (RMS)	1000 V (RMS)
	derated, refer to base unit manual	CAT III	CAT III
Dynamic range			
Input voltage range		±300 V	±3000 V
Base unit			
Use with		R&S®RT-ZISO	



R&S®ZISO-Z301 (left)/R&S®ZISO-Z302 (right) maximum rated sine-wave root mean square voltage between probe tip and probe reference terminal versus frequency (CAT III)

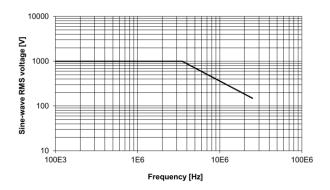
Temperature			
Temperature loading	operating temperature range	–5 °C to +40 °C	
Climatic loading		+25 °C/+40 °C cyclic at 95 % relative	
_		humidity without condensation,	
		in line with IEC 60068-2-30	
Altitude	operation	up to 2000 m	
Safety		in line with	
•		Low Voltage Directive 2014/35/EU,	
		IEC/EN 61010-031 (pollution degree 2)	
RoHS		in line with RoHS Directive 2011/65/EU	
Mechanical data			
Dimensions	diameter of probe tip	approx. 5 mm (0.2 in)	
	diameter of reference terminal	approx. 2 mm (0.08 in)	
	cable length	approx. 1.2 m (47 in)	
Weight	probe only	approx. 75 g (0.17 lb)	
Probe input			
Connector		browser	

R&S®RT-ZD002/-ZD003 high voltage differential probes (discontinued products)

All parameters are valid when the probe is connected to an appropriate Rohde & Schwarz oscilloscope with an input impedance of 1 $M\Omega$. See table on page 5 and Rohde & Schwarz oscilloscope operating manual for more details.

		R&S®RT-ZD002	R&S®RT-ZD003
Step response			
Rise time	10 % to 90 %	14 ns (meas.)	
Frequency response			
Bandwidth	-3 dB, starting at DC,	25 MHz	
	calculated from 0.35/rise time		
Common mode rejection	DC to 100 Hz	86 dB (meas.)	80 dB (meas.)
·	100 Hz to 20 kHz	66 dB (meas.)	60 dB (meas.)
Input impedance			
DC input resistance	differential (between signal sockets)	8 MΩ (meas.)	
	single-ended (each signal socket to ground)	4 MΩ (meas.)	
Input capacitance	differential (between signal sockets)	2.75 pF (meas.)	
	single-ended (each signal socket to ground)	5.5 pF (meas.)	
DC characteristics			
Attenuation	low/high attenuation	10:1, 100:1	20:1, 200:1
Attenuation error		±2 % (meas.)	±2 % (meas.)
Maximum differential input	between signal sockets, low/high attenuation	±70 V, ±700 V	±140 V, ±1400 V
Operating voltage window	each signal socket to ground	±700 V	±1400 V
Zero error	referenced to probe output	±5 mV (meas.)	
Noise voltage	referenced to probe output	0.7 mV (RMS)	
Maximum rated input voltage			
Continuous voltage	derated, see figure,	1000 V (RMS) CAT	III
	each signal socket to ground		

Base unit		
Input coupling		1 ΜΩ



Maximum rated sine-wave root mean square voltage versus frequency

		R&S®RT-ZD002	R&S®RT-ZD003
Temperature			<u> </u>
Temperature loading	operating temperature range	−10 °C to +40 °C	
-	storage temperature range,	−30 °C to +70 °C	
	with battery removed		
Climatic loading		85 % relative humidity without condensation	
Altitude	operation	up to 2000 m	
Safety		in line with EN 61010-1	
RoHS		in line with RoHS Directive 2011/65/EU	
EMC		in line with EN 61326-1	
Calibration interval		2 years	
Mechanical data			
Dimensions	probe head (L × W × H)	approx. 170 mm × 6	3 mm × 21 mm
		(6.7 in × 2.5 in × 0.8 in)	
	length of probe cable	approx. 95 cm (37 in)	
	length of input leads	approx. 45 cm (18 ir	1)
Weight	probe only	approx. 400 g (0.88 lb)	
Probe interface			
Connector		BNC	
Input sockets		4 mm	
Supply voltage		4.5 V to 12 V, 360 mW	
Supply type		battery or USB adapter	
Battery type		4 times AA cells	

R&S®RT-ZD02/-ZD08 high voltage differential probes (discontinued products)

All parameters are valid when the probe is connected to an appropriate Rohde & Schwarz oscilloscope with an input impedance of 50 Ω . See table on page 5 and Rohde & Schwarz oscilloscope operating manual for more details.

		R&S®RT-ZD02	R&S®RT-ZD08
Step response			
Rise time	10 % to 90 %	1.75 ns (meas.)	437 ps (meas.)
Frequency response			
Bandwidth	–3 dB, starting at DC, calculated from 0.35/rise time	200 MHz	800 MHz
Common mode rejection	DC to 100 Hz	80 dB (meas.)	60 dB (meas.)
	100 Hz to 10 MHz	50 dB (meas.)	-
	100 Hz to 500 MHz	_	15 dB (meas.)
Noise voltage	referenced to probe input	2.6 mV (RMS) (meas.)	2.3 mV (RMS) (meas.)
Input impedance			
DC input resistance	differential (between signal sockets)	1 MΩ (meas.)	200 kΩ (meas.)
·	single-ended (each signal socket to ground)	500 kΩ (meas.)	100 kΩ (meas.)
Input capacitance	differential (between signal sockets)	3.5 pF (meas.)	1 pF (meas.)
	single-ended (each signal socket to ground)	7 pF (meas.)	2 pF (meas.)
DC characteristics			
Maximum differential input	between signal sockets	±20 V	±15 V
Operating voltage window	each signal socket to ground	±60 V	±30 V
Attenuation		10:1	10:1
Attenuation error	probe only, with ideal 50 Ω load impedance	±1 % (meas.)	±2 % (meas.)
Zero error	at probe output	±2 mV (meas.)	±5 mV (meas.)
Base unit input coupling		50 Ω	
Maximum rated input voltag	e		
DC peak voltage	single-ended (each signal socket to ground)	±60 V	±40 V
AC peak voltage	single-ended (each signal socket to ground)	±60 V	±40 V

		R&S®RT-ZD02	R&S®RT-ZD08
Temperature			
Temperature loading	operating temperature range	+5 °C to +40 °C	
	storage temperature range,	−20 °C to +70 °C	
	with battery removed		
Climatic loading		85 % relative humidity v	vithout condensation
Altitude	operation	up to 3000 m	
	transport	up to 15.300 m	
Safety		in line with EN 61010-1	
RoHS		in line with RoHS Direct	tive 2011/65/EU
EMC		in line with EN 61326-1	
Calibration interval		2 years	
Mechanical data			
Dimensions	probe head (L × W × H)	approx. 111 mm × 22 m	nm × 14 mm
		$(4.3 \text{ in} \times 0.9 \text{ in} \times 0.6 \text{ in})$	
	length of probe cable	approx. 1.2 m (47 in)	
	length of input leads	approx. 15 cm (6 in)	_
Weight	probe only	approx. 170 g (0.37 lb)	
Probe interface			
Connector		BNC	
Input sockets	diameter	4 mm (0.2 in)	0.635 mm (0.02 in)
	spacing	180 mm (7 in)	2.54 mm (0.1 in)
Supply voltage		4.5 V to 12 V	
Supply type		battery or USB adapter	
Battery type		9 V Alkaline battery	
Battery lifetime		7.5 h (meas.) 4.5 h (meas.)	

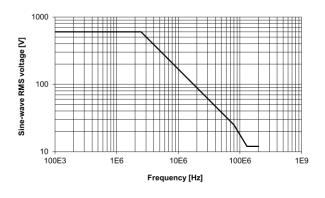
R&S®RT-ZHD07 high voltage differential probe

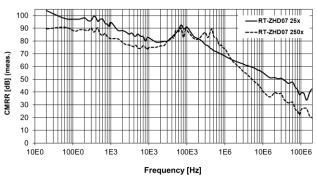
All parameters are valid when the probe is connected to an appropriate Rohde & Schwarz oscilloscope with an input impedance of 1 $M\Omega$. See table on page 5 and Rohde & Schwarz oscilloscope operating manual for more details.

Attenuation setting		25:1	250:1
Step response			
Rise time	10 % to 90 %, both attenuations	< 2 ns	
Frequency response			
Bandwidth	starting at DC, calculated from 0.4/rise time	200 MHz	
Common mode rejection ³	DC to 60 Hz		
	+15 °C to +35 °C	> 80 dB	
	0 °C to +50 °C	> 75 dB	
	60 Hz to 100 kHz	70 dB (typ.)	65 dB (typ.)
	100 kHz to 1 MHz	60 dB (typ.)	55 dB (typ.)
	1 MHz to 50 MHz	35 dB (typ.)	20 dB (typ.)
Input impedance			
DC input resistance	differential (between signal sockets)	5 ΜΩ	
·	single-ended (each signal socket to ground)	2.5 ΜΩ	
Input capacitance	differential (between signal sockets)	2.5 pF (meas.)	
	single-ended (each signal socket to ground)	5 pF (meas.)	

³ Valid for probes starting with serial number 200 000. Older probes have lower CMRR performance. For further information, please refer to the manual.

DC characteristics			
Attenuation error	after applying digital correction factors	±0.5 %	
Temperature drift, attenuation		±60 ppm/°C	
Zero error	after applying digital correction factors, referenced to probe input		
	+15 °C to +35 °C	±12.5 mV	±35 mV
	0 °C to +50 °C	±25 mV	±55 mV
Temperature drift, zero error	referenced to probe input	±0.75 mV/°C	±1.12 mV/°C
	referenced to probe output	±30 μV/°C	±4.5 μV/°C
Dynamic range			
Differential input	between signal sockets	±75 V	±750 V
Offset compensation range	in both attenuations	±1000 V	
Offset compensation error	offset compensation setting = 0 V	no additional error	
	offset compensation setting ≠ 0 V	±0.2 % of setting	±40 mV (meas.)
Operating voltage window	each signal socket to ground	±750 V	
Noise voltage	referenced to probe input	12 mV (RMS)	40 mV (RMS)
		(meas.)	(meas.)
Maximum rated input voltage			
Continuous voltage	derated, see figure, each signal socket to ground	300 V (RMS) CAT III	
		600 V (RMS) CAT II	
		600 V (RMS)	
Transient voltage	each signal socket to ground	±4500 V (peak)	
Base unit			
Input coupling	AC/DC	1 ΜΩ	





Maximum rated sine-wave root mean square voltage versus frequency; each signal socket to ground

Measured common mode rejection versus frequency

R&S®ProbeMeter

Specifications for measurement error apply only when offset compensation setting is 0 V. The R&S®ProbeMeter can be used to measure differential and common mode voltages.

Measurement error,	+15 °C to +35 °C	±0.1 % of reading ±0.02 V
differential mode and common mode	0 °C to +50 °C	±0.2 % of reading ±0.04 V
Temperature drift		±60 ppm/°C of reading ±1 mV/°C
Common mode rejection,	+15 °C to +35 °C	> 80 dB
for differential measurement	0 °C to +50 °C	> 75 dB
50 Hz/60 Hz rejection		> 87 dB
Integration time		147 ms

Temperature		
Temperature loading	operating temperature range	0 °C to +50 °C
	storage temperature range	−40 °C to +70 °C
Climatic loading		+25 °C/+40 °C cyclic at 95 % relative
		humidity without condensation,
		in line with IEC 60068-2-30
Altitude	operation	up to 3000 m
	transport	up to 4600 m
Mechanical resistance		
Vibration	sinusoidal	5 Hz to 150 Hz, max. 1.8 g at 55 Hz,
		0.5 g from 55 Hz to 150 Hz,
		in line with EN 60068-2-6
	random	8 Hz to 650 Hz,
		acceleration 1.9 g (RMS),
		in line with EN 60068-2-64
Shock		40 g shock spectrum,
		in line with MIL-STD-810E
EMC		in line with EMC Directive 2014/30/EC,
		IEC/EN 61326-1 (table 2),
		IEC/EN 61326-2-1,
		CISPR 11/EN 55011(class B)
Calibration interval		2 years
Safety		in line with IEC/EN 61010-031
RoHS		in line with RoHS Directive 2011/65/EU

Mechanical data		
Dimensions	probe amplifier box, without protector (W × H × L)	approx. 55 mm × 26 mm × 165 mm (2.17 in × 1.02 in × 6.5 in)
	cable length	
	R&S®RT-ZHD15/-ZHD60	 available options: R&S®RT-ZHD-B15: approx. 1.3 m (52 in) R&S®RT-ZHD-B30: approx. 3.0 m (118 in) R&S®RT-ZHD-B45: approx. 4.5 m (177 in)
	all other versions	available option: R&S®RT-ZHD-B15: approx. 1.3 m (52 in)
	overall length	approx. 1.6 m (63 in)
Weight	probe amplifier only	approx. 360 g (0.8 lb)
Probe interface		
Connector		Rohde & Schwarz probe interface
Input sockets		4 mm

R&S®RT-ZHD15/-ZHD16 high voltage differential probe

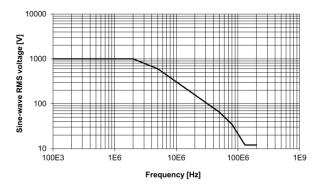
All parameters are valid when the probe is connected to an appropriate Rohde & Schwarz oscilloscope with an input impedance of 1 $M\Omega$. See table on page 5 and Rohde & Schwarz oscilloscope operating manual for more details.

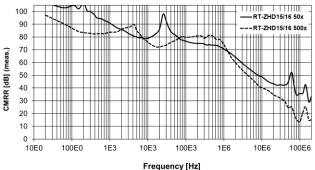
Attenuation setting		50:1	500:1
Step response			
Rise time	10 % to 90 %, both attenuations		
	R&S [®] RT-ZHD15	< 4 ns	
	R&S®RT-ZHD16	< 2 ns	
Frequency response			
Bandwidth	starting at DC, calculated from 0.4/rise time		
	R&S®RT-ZHD15	100 MHz	
	R&S®RT-ZHD16	200 MHz	
Common mode rejection ⁴	DC to 60 Hz		
	+15 °C to +35 °C	> 80 dB	
	0 °C to +50 °C	> 75 dB	
	60 Hz to 100 kHz	70 dB (typ.)	65 dB (typ.)
	100 kHz to 1 MHz	60 dB (typ.)	55 dB (typ.)
	1 MHz to 50 MHz	35 dB (typ.)	20 dB (typ.)
Input impedance			
DC input resistance	differential (between signal sockets)	10 ΜΩ	
	single-ended (each signal socket to ground)	5 ΜΩ	
Input capacitance	differential (between signal sockets)	2 pF (meas.)	
	single-ended (each signal socket to ground)	4 pF (meas.)	

Valid for probes starting with serial number 200 000. Older probes have lower CMRR perform

⁴ Valid for probes starting with serial number 200 000. Older probes have lower CMRR performance. For further information, please refer to the manual.

DC characteristics			
Attenuation error	after applying digital correction factors	±0.5 %	
Temperature drift, attenuation		±60 ppm/°C	
Zero error	after applying digital correction factors,		
	referenced to probe input		
	+15 °C to +35 °C	±25 mV	±65 mV
	0 °C to +50 °C	±50 mV	±95 mV
Temperature drift, zero error	referenced to probe input	±1.5 mV/°C	±1.75 mV/°C
	referenced to probe output	±30 μV/°C	±3.5 μV/°C
Dynamic range			
Differential input	between signal sockets	±150 V	±1500 V
Offset compensation range	in both attenuations	±2000 V	
Offset compensation error	offset compensation setting = 0 V	no additional error	
	offset compensation setting ≠ 0 V	±0.2 % of setting ± 80 mV (meas.)	
Operating voltage window	each signal socket to ground	±1500 V	
Noise voltage	referenced to probe input, (RMS)		
•	R&S®RT-ZHD15	20 mV (meas.)	70 mV (meas.)
	R&S®RT-ZHD16	25 mV (meas.)	80 mV (meas.)
Maximum rated input voltage			
Continuous voltage	derated, see figure, each signal socket to ground	1000 V (RMS) CAT III	
-		1000 V (RMS)	
Transient voltage	each signal socket to ground	±6800 V (peak)	
Base unit			
Input coupling	AC/DC	1 ΜΩ	





Maximum rated sine-wave root mean square voltage versus frequency; each signal socket to ground

Measured common mode rejection versus frequency

R&S®ProbeMeter

Specifications for measurement error apply only when offset compensation setting is 0 V. The R&S®ProbeMeter can be used to measure differential and common mode voltages.

Measurement error,	+15 °C to +35 °C	
differential mode and common mode	≤ 1000 V	±0.1 % of reading ±0.03 V
	> 1000 V	±0.1 % of reading ±0.03 V (meas.)
	0 °C to +50 °C	
	≤ 1000 V	±0.2 % of reading ±0.06 V
	> 1000 V	±0.2 % of reading ±0.06 V (meas.)
Temperature drift		±60 ppm/°C of reading ±1.5 mV/°C
Common mode rejection,	+15 °C to +35 °C	> 80 dB
for differential measurement	0 °C to +50 °C	> 75 dB
50 Hz/60 Hz rejection		> 87 dB
Integration time		147 ms

General data

See page 41.

R&S®RT-ZHD60 high voltage differential probe

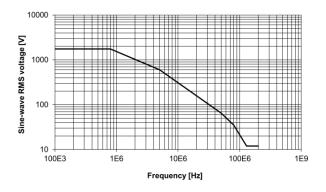
All parameters are valid when the probe is connected to an appropriate Rohde & Schwarz oscilloscope with an input impedance of 1 $M\Omega$. See table on page 5 and Rohde & Schwarz oscilloscope operating manual for more details.

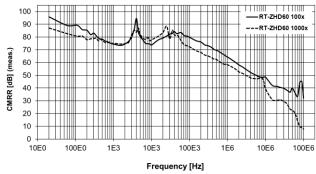
Attenuation setting		100:1	1000:1
Step response			
Rise time	10 % to 90 %, both attenuations	< 4 ns	
Frequency response			
Bandwidth	starting at DC, calculated from 0.4/rise time	100 MHz	
Common mode rejection ⁵	DC to 60 Hz		
	+15 °C to +35 °C	> 80 dB	
	0 °C to +50 °C	> 75 dB	
	60 Hz to 100 kHz	70 dB (typ.)	65 dB (typ.)
	100 kHz to 1 MHz	60 dB (typ.)	55 dB (typ.)
	1 MHz to 50 MHz	35 dB (typ.)	20 dB (typ.)
Input impedance			
DC input resistance	differential (between signal sockets)	40 ΜΩ	
	single-ended (each signal socket to ground)	20 ΜΩ	
Input capacitance	differential (between signal sockets)	2 pF (meas.)	
	single-ended (each signal socket to ground)	4 pF (meas.)	

⁵ Valid for probes starting with serial number 200 000. Older probes have lower CMRR performance. For further information, please refer to the manual.

Rohde & Schwarz R&S®RT-Zxx High Voltage and Current Probes

DC characteristics			
Attenuation error	after applying digital correction factors	±0.5 %	
Temperature drift, attenuation		±80 ppm/°C	
Zero error	after applying digital correction factors,		
	referenced to probe input		
	+15 °C to +35 °C	±90 mV	±150 mV
	0 °C to +50 °C	±150 mV	±230 mV
Temperature drift, zero error	referenced to probe input	±5 mV/°C	±5.5 mV/°C
	referenced to probe output	±50 μV/°C	±5.5 μV/°C
Dynamic range			
Differential input	between signal sockets	±600 V	±6000 V
Offset compensation range	in both attenuations	±2000 V	
Offset compensation error	offset compensation setting = 0 V	no additional error	
	offset compensation setting ≠ 0 V	±0.2 % of setting:	±100 mV (meas.)
Operating voltage window	each signal socket to ground	±6000 V	
Noise voltage	referenced to probe input	70 mV (RMS)	280 mV (RMS)
		(meas.)	(meas.)
Maximum rated input voltage			
Continuous voltage	derated, see figure, each signal socket to ground	1000 V (RMS) CAT III	
		1750 V (RMS)	
Transient voltage	each signal socket to ground	±6800 V (peak)	
Base unit			
Input coupling	AC/DC	1 ΜΩ	





Maximum rated sine-wave root mean square voltage versus frequency; each signal socket to ground

Measured common mode rejection versus frequency

R&S®ProbeMeter

Specifications for measurement error apply only when offset compensation setting is 0 V. The R&S®ProbeMeter can be used to measure differential and common mode voltages.

Measurement error,	+15 °C to +35 °C	
differential mode and common mode	≤ 1000 V	±0.12 % of reading ±0.1 V
	> 1000 V	±0.12 % of reading ±0.1 V (meas.)
	0 °C to +50 °C	
	≤ 1000 V	±0.25 % of reading ±0.2 V
	> 1000 V	±0.25 % of reading ±0.2 V (meas.)
Temperature drift		±80 ppm/°C of reading ±4.5 mV/°C
Common mode rejection,	+15 °C to +35 °C	> 80 dB
for differential measurement	0 °C to +50 °C	> 75 dB
50 Hz/60 Hz rejection		> 87 dB
Integration time		147 ms

General data

See page 41.

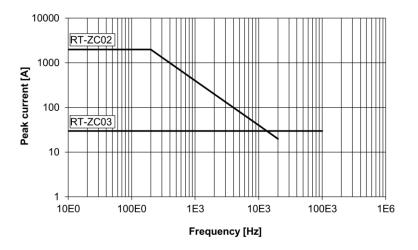
R&S®RT-ZC02/-ZC03 current probes

All parameters are valid when the probe is connected to an appropriate Rohde & Schwarz oscilloscope with an input impedance of 1 $M\Omega$. See table on page 5 and Rohde & Schwarz oscilloscope operating manual for more details.

		R&S®RT-ZC02	
Sensitivity setting		0.01 V/A	0.001 V/A
Step response			
Rise time	10 % to 90 %	20 µs (meas.)	
Frequency response			
Bandwidth	–3 dB, starting at DC	20 kHz (meas.)	
DC characteristics			
Dynamic range	derated, see figures on page 54	±200 A	±2000 A
Sensitivity error	+23 °C ±1 °C, ±1500 A	±1 % (meas.)	
	+23 °C ±1 °C, ±2000 A	±5 % (meas.)	
Temperature drift, sensitivity		±0.15 %/°C (meas.)	
Zero error	referenced to probe input after	±100 mA (meas.)	±500 mA (meas.)
	demagnetizing and zero adjustment		
AC characteristics			
Maximum slew rate		±20 A/μs (meas.)	
Maximum rated input			
Maximum continuous current		1000 A (RMS)	
Maximum working voltage	for uninsulated conductors	300 V (RMS) CAT III	
Other			
Noise	with 20 MHz lowpass filter	30 mA (RMS) (meas.)	80 mA (RMS) (meas.)
Base unit			
Input coupling		1 ΜΩ	
	I .		

		R&S®RT-ZC03
Step response		
Rise time	10 % to 90 %	1 μs (meas.)
Frequency response		
Bandwidth	-0.5 dB, starting at DC	100 kHz (meas.)
DC characteristics		
Dynamic range	derated, see figures on page 54	±30 A
Sensitivity		0.1 V/A
Sensitivity error	+23 °C ±1 °C	±1 % (meas.)
Temperature drift, sensitivity		±0.01 %/°C (meas.)
Zero error	referenced to probe input after	±2 mA (meas.)
	demagnetizing and zero adjustment	
AC characteristics		
Maximum slew rate		±20 A/μs (meas.)
Maximum rated input		
Maximum continuous current		20 A (RMS)
Maximum working voltage	for uninsulated conductors	300 V (RMS) CAT III
Other		
Noise	with 20 MHz lowpass filter	2 mA (RMS) (meas.)
Base unit		
Input coupling		1 ΜΩ

		R&S®RT-ZC02	R&S®RT-ZC03
Temperature			
Temperature loading	operating temperature range	0 °C to +50 °C	
	storage temperature range, with battery removed	−20 °C to +85 °C	
Climatic loading	·	80 % relative humidity fo	r temperatures up to +31 °C,
		decreasing linearly to 40	% at +50 °C
Altitude	operation	up to 2000 m	
Safety		in line with EN 61010-1	
•		in line with EN 61010-2-0	032 (pollution degree 2)
RoHS		in line with RoHS Directive 2011/65/EU	
EMC		in line with EN 61326-2-2	
Calibration interval		2 years	
Mechanical data			
Dimensions	diameter of probe tip	approx. 32 mm (1.3 in)	approx. 25 mm (1.0 in)
	cable length	approx. 2.0 m (79 in)	
Weight	probe only	approx. 320 g (0.7 lb)	
Probe interface			
Connector		BNC	
Battery type		9 V Alkaline battery, PP3	8,
		MN 1604 or IEC6LR61	
Battery lifetime		50 h (meas.)	25 h (meas.)



Maximum rated peak input current versus frequency

R&S®RT-ZC05B/-ZC10(B)/-ZC15B/-ZC20(B)/-ZC30 current probes

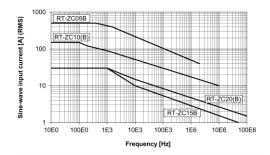
All parameters are valid when the probe is connected to an appropriate Rohde & Schwarz oscilloscope with an input impedance of 1 $M\Omega$. See table on page 5 and Rohde & Schwarz oscilloscope operating manual for more details.

		R&S®RT-ZC05B	R&S®RT-ZC10(B)
Step response			
Rise time	10 % to 90 %, calculated from bandwidth	175 ns	35 ns
Propagation delay		100 ns (meas.)	36 ns (meas.)
Frequency response			
Bandwidth	–3 dB, starting at DC	> 2 MHz	> 10 MHz
Input impedance		see figure on page 62	
DC characteristics			
Sensitivity		0.01 V/A	
Sensitivity error	+23 °C ±3 °C	±1 %	
Zero error	referenced to probe input after demagnetizing and zero adjustment	±500 mA (meas.)	±100 mA (meas.)
AC characteristics			
AC sensitivity error	+23 °C ±3 °C	±1 % ± 500 mA (RMS)	±1 % ± 100 mA (RMS)
(sinusoidal, 45 Hz to 66 Hz)	0 °C to +40 °C	±3 % ± 500 mA (RMS) (meas.)	±3 % ± 100 mA (RMS) (meas.)
Measurement due to external	400 A/m magnetic field, DC or 60 Hz,	< 800 mA (RMS) (meas.)	< 150 mA (RMS) (meas.)
magnetic fields	referenced to probe input		
Maximum rated input			
Maximum continuous current	derated, see figures on page 62	500 A (RMS)	150 A (RMS)
Maximum transient current	peak	±700 A	±300 A
Other			
Noise	20 MHz measurement bandwidth, referenced to probe input	25 mA (RMS) (meas.)	

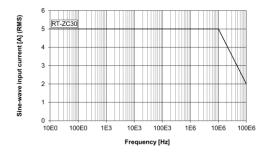
		R&S®RT-ZC15B	R&S®RT-ZC20(B)
Step response			
Rise time	10 % to 90 %, calculated from bandwidth	7 ns	3.5 ns
Propagation delay		16.5 ns (meas.)	14.8 ns (meas.)
Frequency response			
Bandwidth	–3 dB, starting at DC	> 50 MHz	> 100 MHz
Input impedance		see figure on page 62	
DC characteristics			
Sensitivity		0.1 V/A	
Sensitivity error	+23 °C ±3 °C	±1 %	
Zero error	referenced to probe input after	±10 mA (meas.)	
	demagnetizing and zero adjustment		
AC characteristics			
AC sensitivity error	+23 °C ±3 °C	±1 % ± 10 mA (RMS)	
(sinusoidal, 45 Hz to 66 Hz)	0 °C to +40 °C	±3 % ± 10 mA (RMS) (mea	ıs.)
Measurement due to external	400 A/m magnetic field, DC or 60 Hz,	< 20 mA (RMS) (meas.)	< 5 mA (RMS) (meas.)
magnetic fields	referenced to probe input		
Maximum rated input			
Maximum continuous current	derated, see figures on page 62	30 A (RMS)	
Maximum transient current	peak	±50 Å	
Other			
Noise	20 MHz measurement bandwidth,	2.5 mA (RMS) (meas.)	
	referenced to probe input		

		R&S®RT-ZC30
Step response		
Rise time	10 % to 90 %, calculated from bandwidth	2.9 ns
Frequency response		
Bandwidth	-3 dB, starting at DC	> 120 MHz
Input impedance		see figure on page 62
DC characteristics		
Sensitivity		1 V/A
Sensitivity error	+23 °C ±3 °C	±3 %
Zero error	referenced to probe input	±1 mA (meas.)
	after demagnetizing and zero adjustment	
AC characteristics		
AC measurement error	+23 °C ±3 °C	±3 % ±1 mA (RMS)
(sinusoidal, 45 Hz to 66 Hz)	0 °C to +40 °C	±5 % ±1 mA (RMS) (meas.)
Measurement due to external	400 A/m magnetic field, DC or 60 Hz,	< 5 mA (RMS) (meas.)
magnetic fields	referenced to probe input	
Maximum rated input		
Maximum continuous current	derated, see figures on page 62	5 A (RMS)
Maximum transient current	peak	±7.5 A
Other		
Noise	30 MHz measurement bandwidth,	60 μA (RMS) (meas.)
	referenced to probe input	

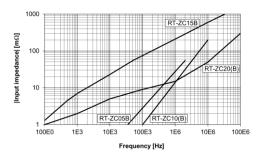
		R&S®RT-ZC05B/ R&S®RT-ZC10(B)	R&S [®] RT-ZC15B/ R&S [®] RT-ZC20(B)/ R&S [®] RT-ZC30
Temperature			
Temperature loading	operating temperature range	0 °C to +40 °C	
	storage temperature range	−10 °C to +50 °C	
Climatic loading		80 % relative humidity	
Altitude	operation	up to 2000 m	
Safety		in line with EN 61010-2-032	
		(type D sensor, insulated con	nductor only)
RoHS		in line with RoHS Directive 2	011/65/EU
EMC		in line with	
		EN 61326-1, CISPR 11/EN 55011 (class B, table 2)	
Calibration interval		2 years	
Mechanical data			
Dimensions	max. conductor diameter	approx. 20 mm (0.79 in)	approx. 5 mm (0.2 in)
	cable length, probe	approx. 2 m (78.7 in)	approx. 1.5 m (59 in)
	cable length, power supply of R&S®RT-ZCxx	approx. 1 m (39.4 in)	approx. 1 m (39.4 in)
	probe head (W × H × L, approx.)	27 mm × 69 mm × 176 mm	18 mm × 40 mm × 175 mm
		(1.06 in × 2.72 in × 6.93 in)	(0.71 in × 1.57 in × 6.89 in)
Weight	probe only	approx. 500 g (1.1 lb)	approx. 240 g (0.53 lb)
Probe interface			
Connector	R&S®RT-ZCxx	BNC	
	R&S®RT-ZCxxB	Rohde & Schwarz probe interface	
Supply voltage	R&S®RT-ZCxx	external power supply necessary (e.g. R&S®RT-ZA13) ±12 V ± 0.5 V (5.5 W)	
	R&S®RT-ZCxxB	power supply by Rohde & Schwarz probe interface	



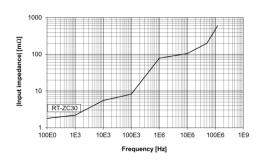
Maximum rated sine-wave root mean square input current versus frequency



Maximum rated sine-wave root mean square input current versus frequency



Input impedance (meas.)



Input impedance (meas.)

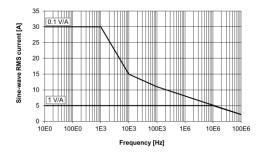
R&S®RT-ZC31 current probe

All parameters are valid when the probe is connected to an appropriate Rohde & Schwarz oscilloscope with an input impedance of 1 $M\Omega$. See table on page 5 and Rohde & Schwarz oscilloscope operating manual for more details.

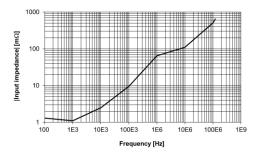
		R&S®RT-ZC31		
Sensitivity setting		0.1 V/A	1 V/A	10 V/A
Step response				
Rise time	10 % to 90 %, calculated from bandwidth	2.9 ns		
Propagation delay		12 ns (meas.)	12 ns (meas.)	13 ns (meas.)
Frequency response				
Bandwidth	-3 dB, starting at DC	> 120 MHz		
Input impedance		see figure on pa	age 62	
DC characteristics				
Sensitivity error	+23 °C ±5 °C	±3 %, ±1 % (me	eas.)	
Zero error	referenced to probe input	±10 mA	±1 mA	±1 mA
	after demagnetizing and zero adjustment	(meas.)	(meas.)	(meas.)
AC characteristics				
AC measurement error	+23 °C ±5 °C	±3 %	±3 %	±3 %
(sinusoidal, 45 Hz to 66 Hz)		±10 mA (RMS)	±1 mA (RMS)	±1 mA (RMS)
	(meas.)	±1 %	±1 %	±1 %
		±10 mA (RMS)	±1 mA (RMS)	±1 mA (RMS)
Measurement due to external	400 A/m magnetic field, DC or 60 Hz,	< 5 mA (RMS) (meas.)	
magnetic fields	referenced to probe input			
Maximum rated input				
Maximum continuous current	derated, see figures on page 62	30 A (RMS)	5 A (RMS)	0.5 A (RMS)
Maximum transient current	peak, input for max. 2 s	±50 A	±7.5 A	±0.75 A
Other				
Noise	20 MHz measurement bandwidth,			60 μA (RMS)
	referenced to probe input			(meas.)

		R&S®RT-ZC31
Temperature		
Temperature loading	operating temperature range	0 °C to +40 °C
	storage temperature range	-10 °C to +50 °C
Climatic loading		80 % relative humidity
Altitude	operation	up to 2000 m
Safety		in line with EN 61010-2-032
		(type D sensor, insulated conductor only)
RoHS		in line with RoHS Directive 2011/65/EU
EMC		in line with
		EN 61326-1, CISPR 11/EN 55011 (class B, table 2)
Calibration interval		2 years
Mechanical data		
Dimensions	max. conductor diameter	approx. 5 mm (0.2 in)
	cable length, probe cord	approx. 1.5 m (59.6 in)
	cable length, junction box to interface box	approx. 0.15 m (6.0 in)
	cable length, power cord	approx. 1 m (39.4 in)
	probe head (W × H × L)	approx. 18 mm × 26 mm × 155 mm
		(0.71 in × 1.02 in × 6.10 in)
	junction box (W × H × L)	approx. 45 mm × 25 mm × 120 mm
		(1.77 in × 0.98 in × 4.72 in)
	interface box (W × H × L)	approx. 29 mm × 40 mm × 83 mm
		(1.14 in × 1.57 in × 3.27 in)
Weight	probe only	approx. 370 g (0.82 lb)

Probe interface	
Connector	BNC
Supply voltage	external power supply necessary
	(e.g. R&S®RT-ZA13)
	±12 V ± 0.5 V (7.8 W)



Maximum rated sine-wave root mean square input current versus frequency



Input impedance (meas.)

R&S®RT-ZA13 probe power supply

Electrical data			
Number of channels		4	
Output voltage		±12 V ±0.5 V	
Maximum output current	sum total of all channels	2.5 A	
Power requirements		100 V to 240 V, 50 Hz/60 Hz	
Maximum rated input power		170 W	

Safety		in line with EN 61010-1
RoHS		in line with RoHS Directive 2011/65/EU
EMC		in line with EN 61326-1 (class B equipment),
		EN 61000-3-2, EN 61000-3-3
Mechanical data		
Dimensions	W×H×L	approx. 80 mm × 119 mm × 200 mm
		$(3.1 \text{ in} \times 4.7 \text{ in} \times 7.9 \text{ in})$
Weight		approx. 1.1 kg (2.4 lb)
Connector		LEMO FFA.OS.304.CLAC44Z

Ordering information

Designation	Туре	Order No.
High voltage passive probes		
250 MHz high voltage probe, passive, 100:1, 100 MΩ, 6.5 pF, 850 V (RMS)	R&S®RT-ZH03	1333.0873.02
Incl. adjustment tool; coding clips (set) 2 × 4 colors; signal pin (2); sprung hook 5 mm;		
ground lead 14 cm; insulating cap; protective cap; operating manual		
400 MHz high voltage probe, passive, 100:1, 50 MΩ, 7.5 pF, 1 kV (RMS)	R&S®RT-ZH10	1409.7720.02
Incl. adjustment tool; BNC adapter 5.0-L; coding rings (set) 3 × 4 colors;		
flexible adapter 5.0-L; ground lead 22 cm (2); ground lead 22 cm to 4 mm banana plug;		
insulating cap 5.0-L; operating manual; protection cap 5.0-L; safety alligator clip (2);		
solid tip 0.8 mm (5); spring tip 0.8 mm (5); sprung hook 5.0-L (2)		
400 MHz high voltage probe, passive, 1000:1, 50 MΩ, 7.5 pF, 1 kV (RMS)	R&S®RT-ZH11	1409.7737.02
See R&S®RT-ZH10 for equipment included		
500 MHz isolated probe, passive, 10:1, 10 MΩ, 12 pF, 1 kV (RMS) CAT III	R&S®RT-ZI10	1326.1761.02
Incl. coding rings (set) 5 × 2 colors; ground lead 32 cm with safety alligator clip;		
sprung hook; ground pin; operating manual		
500 MHz isolated probe, passive, 10:1, 10 M Ω , 11 pF, 300 V (RMS) CAT III	R&S®RT-ZI10C	1326.3106.02
Incl. coding rings (set) 5 × 2 colors; ground lead with safety alligator clip; sprung hook;		
ground pin; BNC adapter, operating manual		
500 MHz isolated probe, passive, 100:1, 100 MΩ, 4.6 pF, 1 kV (RMS) CAT III	R&S®RT-ZI11	1326.1810.02
Incl. coding rings (set) 5 × 2 colors; ground lead 32 cm with safety alligator clip;		
sprung hook; ground pin; operating manual		
Differential probes		
Isolated probing system, ±30 V, 1 kV (RMS) CAT III (depending on tip module),	R&S®RT-ZISO	1804.5000K02
Rohde & Schwarz probe interface and BNC;		
Incl. carrying case; operating manual		
MMCX 1.5:1, 50 Ω, tip module for R&S®RT-ZISO, 8 V (RMS), ±45 V (peak),	R&S®ZISO-Z101	1803.4100.02
1 kV (RMS) CAT III		
MMCX 10:1, 10 MΩ, tip module for R&S®RT-ZISO, ±300 V (peak), 1 kV (RMS) CAT III	R&S®ZISO-Z201	1803.4200.02

Designation	Туре	Order No.
SQPIN 25:1, 10 MΩ, tip module for R&S®RT-ZISO, ±750 V (peak), 1 kV (RMS) CAT III	R&S®ZISO-Z202	1803.4300.02
WSQPIN 100:1, 40 MΩ, tip module for R&S®RT-ZISO, ±3 kV (peak), 1 kV (RMS) CAT III	R&S®ZISO-Z203	1803.4400.02
Browser 10:1 10 MΩ, tip module for R&S®RT-ZISO, ±300 V (peak), 300 V (RMS) CAT III	R&S®ZISO-Z301	1803.4500.02
Browser 100:1 100 MΩ, tip module for R&S®RT-ZISO, ±3 kV (peak), 1 kV (RMS) CAT III	R&S®ZISO-Z302	1803.4600.02
Optical fiber, length: 3 m, configured for R&S®RT-ZISO probes	R&S®ZISO-B403	1804.5017.02
Optical fiber, length: 10 m, configured for R&S®RT-ZISO probes	R&S®ZISO-B410	1804.5023.02
100 MHz bandwidth option, for R&S®RT-ZISO probes	R&S®ZISO-B901	1804.5030.02
200 MHz bandwidth option, for R&S®RT-ZISO probes	R&S®ZISO-B902	1804.5046.02
350 MHz bandwidth option, for R&S®RT-ZISO probes	R&S®ZISO-B903	1804.5052.02
500 MHz bandwidth option, for R&S®RT-ZISO probes	R&S®ZISO-B905	1804.5069.02
1 GHz bandwidth option, for R&S®RT-ZISO probes	R&S®ZISO-B910	1804.5075.02
200 MHz bandwidth upgrade, for R&S®RT-ZISO probes, (service required),	R&S®ZISO-B202	1804.5146.02
incl. calibration		
350 MHz bandwidth upgrade, for R&S®RT-ZISO probes, (service required),	R&S®ZISO-B203	1804.5152.02
incl. calibration		
500 MHz bandwidth upgrade, for R&S®RT-ZISO probes, (service required),	R&S®ZISO-B205	1804.5169.02
incl. calibration		
1 GHz bandwidth upgrade, for R&S®RT-ZISO probes, (service required),	R&S®ZISO-B210	1804.5175.02
incl. calibration		
25 MHz differential probe, ±700 V, 1 kV (RMS) CAT III, BNC	R&S®RT-ZD002	1337.9700.02
Incl. sprung hook 4 mm (red, black); safety alligator clip 4 mm (red, black); USB power		
cord; trimming tool; operating manual		
25 MHz differential probe, ±1.4 kV, 1 kV (RMS) CAT III, BNC	R&S®RT-ZD003	1337.9800.02
Incl. sprung hook 4 mm (red, black); safety alligator clip 4 mm (red, black); USB power		
cord; trimming tool; operating manual		
200 MHz differential probe, ±20 V, BNC	R&S®RT-ZD02	1333.0821.02
Incl. safety alligator clip 4 mm (2); sprung hook 4 mm (2); USB power cord; 9 V battery;		
carrying case; operating manual		

Designation	Туре	Order No.
800 MHz differential probe, ±15 V, BNC	R&S®RT-ZD08	1333.0838.02
Incl. lead 11 cm (2); lead 7 cm (2); signal pin (6); dual pin (4); mini clip (2); micro clip (2);		
USB power cord; 9 V battery; carrying case; operating manual		
200 MHz differential probe, ±750 V, 600 V (RMS) CAT II, Rohde & Schwarz probe interface	R&S®RT-ZHD07	1800.2307K02
Incl. R&S®RT-ZA24 accessory kit; R&S®RT-ZA22 test leads; R&S®RT-ZHD protector;		
carrying case; operating manual		
100 MHz differential probe, ±1.5 kV, 1 kV (RMS) CAT III, Rohde & Schwarz probe interface	R&S®RT-ZHD15	1800.2107K02
Incl. R&S®RT-ZA24 accessory kit; R&S®RT-ZA22 test leads; R&S®RT-ZHD protector;		
carrying case; operating manual		
200 MHz differential probe, ±1.5 kV, 1 kV (RMS) CAT III, Rohde & Schwarz probe interface	R&S®RT-ZHD16	1800.2207K02
Incl. R&S®RT-ZA24 accessory kit; R&S®RT-ZA22 test leads; R&S®RT-ZHD protector;		
carrying case; operating manual		
100 MHz differential probe, ±6 kV, 1 kV (RMS) CAT III, Rohde & Schwarz probe interface	R&S®RT-ZHD60	1800.2007K02
Incl. R&S®RT-ZA24 accessory kit; R&S®RT-ZA22 test leads; R&S®RT-ZHD protector;		
carrying case; operating manual		
1.5 m cable, for all R&S®RT-ZHD models	R&S®RT-ZHD-B15	1800.2142.02
3.0 m cable, for R&S®RT-ZHD15 and R&S®RT-ZHD60	R&S®RT-ZHD-B30	1800.2159.02
4.5 m cable, for R&S®RT-ZHD15 and R&S®RT-ZHD60	R&S®RT-ZHD-B45	1800.2165.02
Current probes		
20 kHz current probe, AC/DC, 0.01/0.001 V/A, 1000 A, 300 V (RMS) CAT III, BNC	R&S®RT-ZC02	1333.0850.02
Incl. operating manual		
100 kHz current probe, AC/DC, 0.1 V/A, 30 A, 300 V (RMS) CAT III, BNC	R&S®RT-ZC03	1333.0844.02
Incl. operating manual		
10 MHz current probe, AC/DC, 0.01 V/A, 150 A (RMS), BNC	R&S®RT-ZC10	1409.7750K02
Incl. carrying case; operating manual		
100 MHz current probe, AC/DC, 0.1 V/A, 30 A (RMS), BNC	R&S®RT-ZC20	1409.7766K02
Incl. carrying case; operating manual		
120 MHz current probe, AC/DC, 1 V/A, 5 A (RMS), BNC	R&S®RT-ZC30	1409.7772K02
Incl. carrying case; operating manual		

Designation	Туре	Order No.
120 MHz current probe, AC/DC, 0.1 V/A / 1 V/A / 10 V/A, 30 A (RMS), BNC	R&S®RT-ZC31	1801.4932K02
Incl. carrying case; operating manual		
2 MHz current probe, AC/DC, 0.01 V/A, 500 A (RMS), Rohde & Schwarz probe interface	R&S®RT-ZC05B	1409.8204.02
Incl. carrying case; operating manual		
10 MHz current probe, AC/DC, 0.01 V/A, 150 A (RMS), Rohde & Schwarz probe interface	R&S®RT-ZC10B	1409.8210.02
Incl. carrying case; operating manual		
50 MHz current probe, AC/DC, 0.1 V/A, 30 A (RMS), Rohde & Schwarz probe interface	R&S®RT-ZC15B	1409.8227.02
Incl. carrying case; operating manual		
100 MHz current probe, AC/DC, 0.1 V/A, 30 A (RMS), Rohde & Schwarz probe interface	R&S®RT-ZC20B	1409.8233.02
Incl. carrying case; operating manual		
Accessories and sets		
Mini clips, contains: mini clip (10)	R&S®RT-ZA4	1416.0428.02
Micro clips, contains: micro clip (4)	R&S®RT-ZA5	1416.0434.02
Lead set, contains: lead 6 cm (2.4 in) (5); lead 15 cm (5.9 in) (5)	R&S®RT-ZA6	1416.0440.02
Probe box to N/USB adapter	R&S®RT-ZA9	1417.0909.02
SMA(f) to BNC(m) adapter	R&S®RT-ZA10	1416.0457.02
Adapter BNC to 4 mm dual banana	R&S®RT-ZA11	1333.0796.02
Probe power supply	R&S®RT-ZA13	1409.7789.02
Spare accessory set for R&S®RT-ZI10/11 isolated probes	R&S®RT-ZA20	1326.1978.02
Contains: insulating sleeve (2), reference contact (2), reference leads with crocodile clip,		
color clips, sprung hook		
Extended accessory set for R&S®RT-ZI10/11 isolated probes	R&S®RT-ZA21	1326.1984.02
Contains: jaw clip, safety jaw clip, reference lead with 4 mm connector, reference lead with		
hook clip, 4 mm test probe, BNC connector, dual 4 mm to safety BNC adapter		
Multimeter test leads, two leads (red/black), 1000 V CAT III	R&S®RT-ZA22	1326.0988.02
Accessory kit for R&S®RT-ZHD high-voltage differential probes	R&S®RT-ZA24	1800.2707.02
Contains: safety alligator clip (red/black); pincer clip (red/black); test clip (red/black);		
spade terminal (red/black); lead 17 cm (red/black); lead 100 cm (red/black)		
Probe positioner, 2 legged	R&S®RT-ZA29	1801.4803.02

Designation	Туре	Order No.
Probe tip accessory set for R&S®RT-ZP03, R&S®RT-ZP05S, R&S®RT-ZH03 passive	R&S®RT-ZA40	1338.0742.02
voltage probes		
Contains: ground lead; retractable hook; adjustment tool; protection cap; identification tags;		
IC insulating cap; solid probe tip (2); spring-loaded probe tip (2); ground clip; BNC adapter		
MMCX Y-lead adapter	R&S®RT-ZAMXSQ	1803.1647.02
MMCX solder-in to HT	R&S®RT-ZAMXPAD	1803.1653.02
MMCX solder-in to HT open	R&S®RT-ZAMXHTS	1803.1660.02
MMCX cable adapter UF.L	R&S®RT-ZAMXUFL	1803.1676.02
3D probe positioner	R&S®RT-ZAP	1326.3641.02
Power deskew fixture	R&S®RT-ZF20	1800.0004.02

Warranty and service

Warranty			
Base unit		1 year	
All other items		1 year	
Service options			
	Service plans	On demand	
Calibration	up to five years 6	pay per calibration	
Warranty and repair	up to five years 6	standard price repair	
Contact your Rohde & Schwarz sales office for further detail	s.		

⁶ For extended periods, contact your Rohde & Schwarz sales office.

Service at Rohde & Schwarz You're in great hands

- ► Worldwide
- ► Local and personalized
- ► Customized and flexible
- ► Uncompromising quality
- ► Long-term dependability



Mess- und Prüftechnik. Die Experten.

Ihr Ansprechpartner / Your Partner:

dataTec AG

E-Mail: info@datatec.eu >>> www.datatec.eu

Rohde & Schwarz GmbH & Co. KG

www.rohde-schwarz.com

Rohde & Schwarz customer support

www.rohde-schwarz.com/support



Sustainable product design

- ► Environmental compatibility and eco-footprint
- ► Energy efficiency and low emissions
- ► Longevity and optimized total cost of ownership

Certified Quality Management

Certified Environmental Management ISO 14001

R&S® is a registered trademark of Rohde & Schwarz GmbH & Co. KG Trade names are trademarks of the owners PD 5214.2362.22 | Version 31.00 | December 2025 (sk) R&S®RT-Zxx High Voltage and Current Probes Data without tolerance limits is not binding | Subject to change