

Choose your instrument

Configuration recommendation			
Application area	Field		Lab
	Electric and electromechanical installation and maintenance	Electronic field service and maintenance	Research and product development
R&S®Scope Rider – the perfect tool for diagnostics and troubleshooting of:	<ul style="list-style-type: none"> Electric installations Motors, fans and pumps Electric drives Sensors and transducers Industrial machinery 	<ul style="list-style-type: none"> Robotic systems Solar inverters Backup power supplies Avionic and military systems Medical equipment Rail vehicle systems 	<ul style="list-style-type: none"> Embedded systems Industrial controllers Power electronics General electronics Environmental testing
Industries			
Automotive		•	•
Aerospace and defense	•	•	•
Energy	•	•	•
Industry automation	•	•	•
Medical		•	•
Power electronics		•	•
Oscilloscope Input			
2 channels + digital multimeter	R&S®RTH10x2	R&S®RTH10x2	
4 channels		R&S®RTH10x4	R&S®RTH10x4
Bandwidth			
60/100/200/350/500 MHz models	60 MHz to 100 MHz	100 MHz to 500 MHz	200 MHz to 500 MHz
Logic (MSO) option			
8 digital channels		•	•
Analysis options			
I ² C/SPI trigger and decode		•	•
RS-232/UART trigger and decode		•	•
History and segmented memory	•	•	•
Advanced trigger		•	•
Wireless LAN interface	•	•	•
Web interface remote control	•	•	•
Accessories			
Current probes	•	•	•
Car adapter	•	•	•
Carrying case	•	•	•
Battery charger	•	•	•

R&S®Scope Rider model overview							
Bandwidth					Analog channels	Multi-meter	Logic channels (MSO)
60 MHz	100 MHz	200 MHz	350 MHz	500 MHz			
R&S®RTH1002	R&S®RTH1012	R&S®RTH1022	R&S®RTH1032	R&S®RTH1052	2	•	
R&S®RTH1004	R&S®RTH1014	R&S®RTH1024	R&S®RTH1034	R&S®RTH1054	4		
R&S®RTH1002MSO	R&S®RTH1012MSO	R&S®RTH1022MSO	R&S®RTH1032MSO	R&S®RTH1052MSO	2	•	8
R&S®RTH1004MSO	R&S®RTH1014MSO	R&S®RTH1024MSO	R&S®RTH1034MSO	R&S®RTH1054MSO	4		8

Service that adds value

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

About Rohde & Schwarz

The Rohde & Schwarz electronics group offers innovative solutions in the following business fields: test and measurement, broadcast and media, secure communications, cybersecurity, radiomonitoring and radiolocation. Founded more than 80 years ago, this independent company has an extensive sales and service network and is present in more than 70 countries. The electronics group is among the world market leaders in its established business fields. The company is headquartered in Munich, Germany. It also has regional headquarters in Singapore and Columbia, Maryland, USA, to manage its operations in these regions.

Sustainable product design

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

Certified Quality Management
ISO 9001

Certified Environmental Management
ISO 14001

Rohde & Schwarz GmbH & Co. KG

www.rohde-schwarz.com

Rohde & Schwarz Training

www.training.rohde-schwarz.com

Regional contact

- Europe, Africa, Middle East | +49 89 4129 12345
customersupport@rohde-schwarz.com
- North America | 1 888 TEST RSA (1 888 837 87 72)
customer.support@rsa.rohde-schwarz.com
- Latin America | +1 410 910 79 88
customersupport.la@rohde-schwarz.com
- Asia Pacific | +65 65 13 04 88
customersupport.asia@rohde-schwarz.com
- China | +86 800 810 82 28 | +86 400 650 58 96
customersupport.china@rohde-schwarz.com

Scope of the art R&S®Scope Rider Handheld digital oscilloscope

Lab performance in a rugged
and portable design

60 MHz to 500 MHz

Isolated, CAT IV

2 MIN
2 be sure.
2-minutes.com



Invest 2 minutes
and you'll never
look back.

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R&S®Scope Rider Handheld digital oscilloscope
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ROHDE & SCHWARZ

R&S® Scope Rider

Experience our handheld scope for 2 minutes and you'll never look back

Lab performance in a rugged and portable design – the perfect multipurpose tool for the lab or in the field.

Wireless remote control

In the lab In the field



CAT IV 600 V/CAT III 1000 V:
galvanic-insulated floating channels

Rugged, dust and water resistant housing

7", 800 x 480 pixel capacitive touch display

Capacitive touch and keypad operation

- Full operation via touch panel or keypad
- See more with a 7" color display
- Easy parameter adjustment with multifunction wheel
- Large buttons for use with gloves

Multifunction wheel

Outstanding protection

- Maximum safety in all environments: CAT IV 600 V/CAT III 1000 V
- IP51 housing that meets military environmental requirements
- Nonslip and impact resistant rubberized surface

Unmatched connectivity: USB, Ethernet and wireless LAN

Excellent connectivity and much more

- Wireless LAN and Ethernet for web-based remote control and quick data access
- Finish faster with one-touch documentation
- MicroSD card and USB device/host support
- More than 4 hours of battery power

Superior performance

- 60 MHz to 500 MHz with 5 Gsample/s sampling rate
- 50 000 waveforms per second
- 10-bit A/C converter
- 2 mV/div to 100 V/div
- Up to 200 V offset range
- 33 automatic measurement functions

>4 h battery life

Switch between all instrument modes

One-touch documentation: easily save screenshots and measurements



5 instruments in one handheld package

- Lab performance oscilloscope
- Logic analyzer
- Protocol analyzer
- Data logger
- Digital multimeter¹⁾

¹⁾ Additional multimeter channel in two-channel model.

Simply better

Model	R&S® Scope Rider	Typical isolated lab oscilloscope	Typical isolated handheld oscilloscope
Bandwidth	60 MHz to 500 MHz at 5 Gsample/s	100 MHz to 200 MHz at 2 Gsample/s	60 MHz to 500 MHz at 5 Gsample/s
A/D converter	10 bit	8 bit	8 bit
User interface	7", 800 x 480 color capacitive touch, keypad, multifunction wheel	6", 320 x 240 color, keypad	6", 320 x 240 color, keypad
Acquisition speed	50 000 waveforms/s	~200 waveforms/s	~10 waveforms/s
Max. record length	500 ksample	2.5 ksample	10 ksample
Lowpass filtering	flexible: 1 kHz to 200 MHz	analog only: 20 MHz	analog only: 10 kHz and 20 MHz
Trigger system	digital, 14 trigger types	analog, 3 trigger types	analog, 3 trigger types
Protocol decoding	trigger and decode	none	none
Mixed signal option	8 digital channels	none	none
Remote control	web browser based, wireless LAN or Ethernet	PC software required, Ethernet	PC software required, Ethernet

In the lab

The R&S® Scope Rider delivers lab performance in a portable, battery-powered package with the added benefit of isolated channels.

It is the first handheld oscilloscope with an integrated MSO (eight digital channels) and protocol analysis capability on both the analog and digital channels.

With up to 50 000 waveforms per second, it quickly uncovers rare signal faults and provides excellent responsiveness. A digital trigger system with a large set of triggering functions enables it to accurately trigger on the signal that needs to be analyzed.

Requiring only minimum bench space, the R&S® Scope Rider is the perfect tool for even complex R&D debugging tasks and also offers the flexibility required for use in the field.

In the field

With the R&S® Scope Rider, there is no longer a need to compromise on performance when troubleshooting in the field.

It provides all the features and capabilities of today's lab oscilloscopes in a rugged and portable format, with enough battery power for a day's work.

Isolated inputs with 600 V CAT IV rating allow safe measuring in all environments. If extra safety is needed, the R&S® Scope Rider can be remotely controlled with the web browser via wireless LAN, separating the measurement location from the place where the user controls the instrument.

With five instrument modes, including an integrated multimeter²⁾, the R&S® Scope Rider is the perfect troubleshooting instrument for work in the field.

²⁾ ,Only two-channel models

