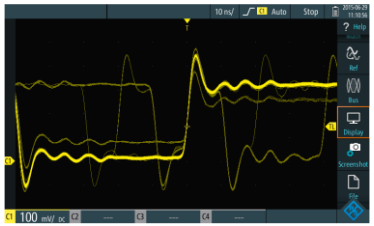
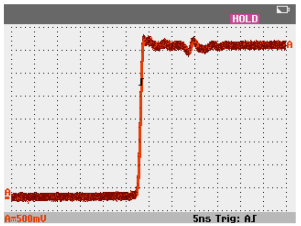
ROHDE&SCHWARZ
Make ideas real

R&S®SCOPE RIDER RTH
Versus Fluke 190 Series III

R&S®Scope Rider detects signal faults which are not visible on the Fluke unit: Signal with 50 errors/s recorded with persistence for 30 s



Signal faults visible on R&S®Scope Rider RTH

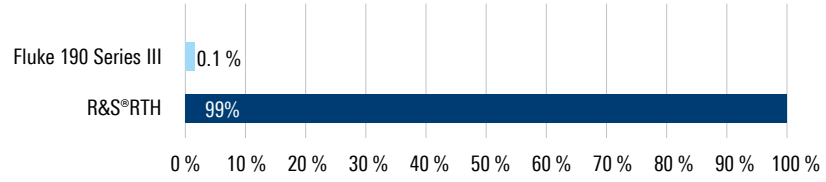


No visible signal faults on Fluke 190

Faster: Discover infrequent signal faults

The high update rate of the R&S®Scope Rider considerable shortens the time to find rare unknown glitches, runs and other signal faults thus shortening the debugging time. Subsequently dedicated advanced triggers enabled by the digital trigger system, Allow to pinpoint and thus solve identified problems.

Probability of detecting a signal fault in 30s at an error rate of 50/s



For price and more information:
www.rohde-schwarz.com/product/RTH

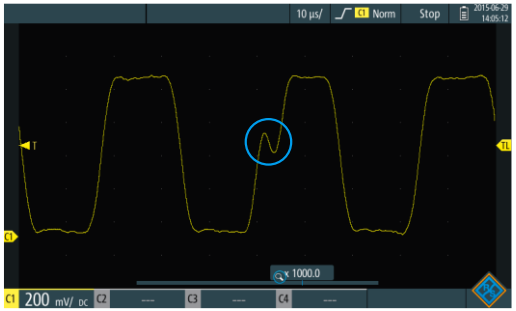
Parameter	R&S®Scope Rider RTH	Fluke 190 Series III
Analog bandwidth (-3 dB)	60 MHz, 100 MHz, 200 MHz, 350 MHz, 500 MHz	60 MHz (only 2 channel), 100 MHz, 200 MHz, 500 MHz
Input channels	2 channels + multimeter, 4 channels	2 channels + multimeter, 4 channels
Sampling rate (Max.)	5 Gsample/s	5 Gsample/s (only at 500 MHz)
ADC resolution	10 bit	8 bit
Input sensitivity	2 mV/div to 100 V/div	2 mV/div to 100 V/div
Memory (Max.)	500 ksample, **datalogger:** 2 Msample **history:** 12.5 Msample	10 ksample, **data logger**: 19 ksample
History	Up to 5000 waveforms with full analysis possibilities	Up to 100 screenshots
Timebase range	1 ns/div to 500 s/div	1 ns/div to 4 s/div (at 500 MHz)
Acquisition rate	50,000 waveforms/s	<10 waveforms/s
Trigger types	digital trigger system, edge, glitch, width, runt, slew rate, timeout, interval, window, pattern, state, data2clk, serial pattern, video (PAL, NTSC, SECAM, PAL-M, SDTV, HDTV)	analog trigger system, edge, pulse width,
Display	800 x 480 pixel capacitive touch screen	1120 x 765 pixel, no touch screen
Connectivity	2 USB (1 host, 1 device), LAN, WLAN [1], microSD, external trigger I/O, logic probe	2 USB (1 host, 1 device), external trigger I/O, WiFi USB Dongle
Remote concept	universal web access	proprietary Windows software
Extensibility	trigger and decode, digital channels, wireless remote interface	-
Weight (with battery)	2.4kg	**2 channels**: 2.1 kg **4 channels**: 2.2kg
Measurement category	CAT IV 600 V, CAT III 1000 V	CAT IV 600 V, CAT III 1000V

[1] WLAN is available with regional limitations

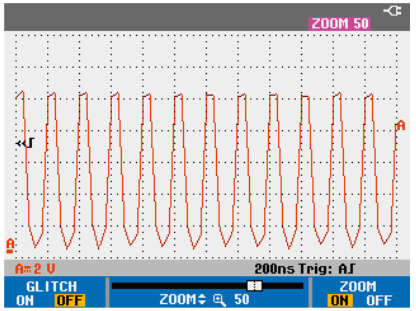
More instruments in one handheld package

R&S®Scope Rider	Scope	XY	DVM	Logger	Spectrum	Roll
	Protocol	FFT	Counter	Harmonic	Mask	User
Fluke 190 Series III	Scope	XY	DVM	Logger	Spectrum	Roll

Signal distortion on the edge of the waveform only discovered with the R&S®Scope Rider (blue circle)



Zoom details with high resolution



Limited resolution for long recordings

Faster: Discover infrequent signal faults

Deep memory enables capturing long periods with maximum resolution. This allows inspecting signal details with high zoom factors (red rectangular) and finding signal faults even far away from the trigger point, as in the example above. Combined with a serial protocol analysis option it allows to capture a complete sequence of serial communication.

An integrated wireless LAN module and web server allows easy remote control of the R&S®Scope Rider RTH. The waveform display and user interface of the R&S®Scope Rider RTH are directly available in the web browser; all settings can be changed on the screen.

With no software installation required, the R&S®Scope Rider RTH can be controlled from almost every portable device such as a laptop, a tablet or even a mobile phone.

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