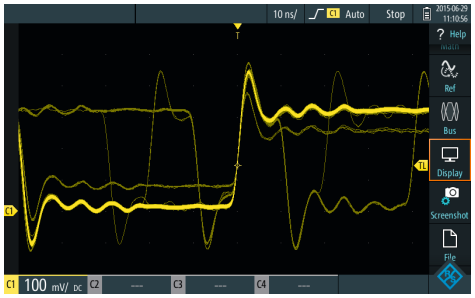
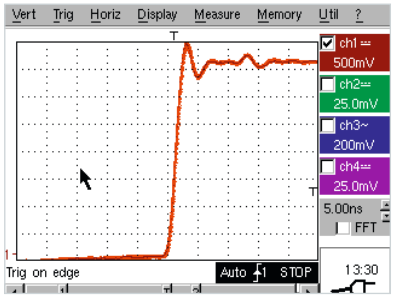
R&S®Scope Rider versus Chauvin Arnoux OX7000 Series

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



7", capacitive touch, 800 × 480 pixel.

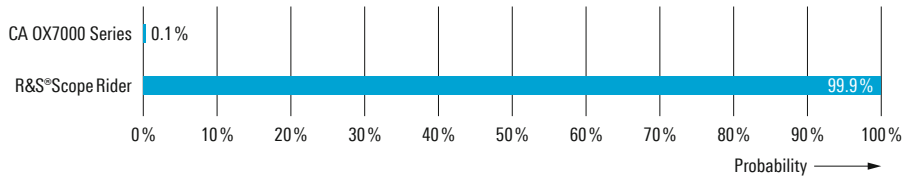


5,7" B&W/color, touch, 320 × 240 pixel

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 to detect a signal fault in 30 s at an error rate of 50/s

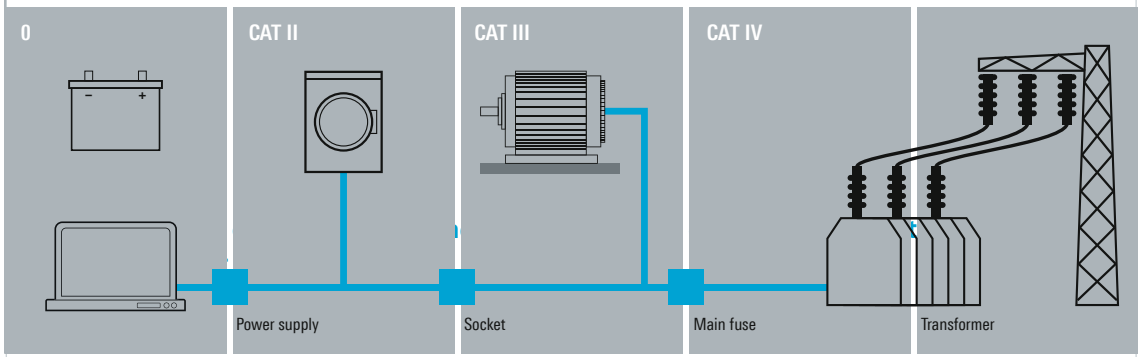


Parameter	R&S®Scope Rider	CA OX7000 Series
Analog bandwidth (–3 dB)	60 MHz, 100 MHz, 200 MHz, 350 MHz, 500 MHz	40 MHz,100 MHz, 200 MHz
Input channels	2 channels + multimeter 4 channels	2 channels + multimeter 4 channels (at 100 MHz/200 MHz only)
Sampling rate (max.)	5 Gsample/s	2.5 Gsample/s
ADC resolution	10 bit	12 bit
Input sensitivity	2 mV/div to 100 V/div	2.5 mV/div to 200 V/div
Memory (max.)	500 ksample, data logger: 2 Msample, history: 12.5 Msample	2.5 ksample data logger: 50 ksample
Data Logger	23 days	8 days
History	up to 5000 waveforms with full analysis possibilities	not available
Timebase range	1 ns/div to 500 s/div	1 ns/div to 200 s/div
Acquisition rate	50 000 waveforms/s	~10 waveforms/s
Trigger types	digital trigger system, edge, glitch, width, runt, slew rate, time-out, interval, window, pattern, state, data-2clk, serial pattern, video (PAL, NTSC, SECAM, PAL-M, SDTV, HDTV)	analog trigger system, edge, pulse width, delay, counting, video (NTSC, SECAM, PAL)
Display	7.0", capacitive touch, 800 × 480 pixel	5.7", B&W/color touch, 320 × 240 pixel
Connectivity	2 USB (1 host, 1 device), LAN, WLAN, microSD, external trigger I/O, logic probe	LAN, USB, RS-232, microSD
Remote concept	universal web access	universal web access, proprietary Windows software
Extensibility	trigger and decode, digital channels, wireless remote interface	–
Weight, with battery	2.4 kg	2.1 kg
Measurement Cat.	CAT IV 600V, CAT III 1000 V	CAT III 600 V
Operating time on battery	> 4 h	7.5 h

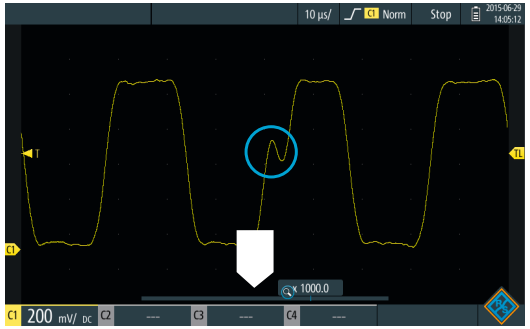
Maximum safety in all environments

R&S®Scope Rider — **CAT IV 600 V/CAT III 1000 V**

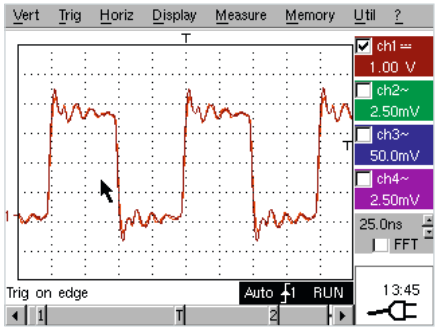
Chauvin Arnoux OX7000 Series — **CAT III 600 V**



The probe design determines its area of application and the maximum rated voltage against protective ground.



Zoom details with high resolution.



Limited resolution for long recordings.

Deep memory for deep insight

Deep memory enables capturing long periods with maximum resolution. This allows inspecting signal details with high zoom factors (arrow indicator) 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 webserver allows for easy remote control of the R&S®Scope Rider. The waveform display and user interface of the R&S®Scope Rider is directly available in the web browser, all settings can be changed on-screen. With no software installation required, the R&S®Scope Rider can be controlled from almost every portable device like a laptop, a tablet PC or even a mobile phone.

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