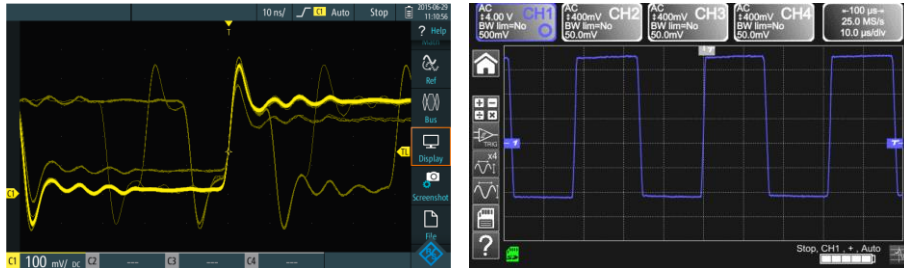


# R&S®SCOPE RIDER RTH versus Chauvin Arnoux OX 9000 series



## Superior detection of signal faults



The R&S®Scope Rider RTH detects signal faults that are not visible on the Chauvin Arnoux unit: signals with 50 errors per second recorded with persistence for 30 s

## Fast and flexible discovery of infrequent signal faults

The high acquisition rate of the R&S®Scope Rider RTH enables rare unknown glitches, runts and other signal faults to be found considerably faster, thus shortening the debugging time. The digital trigger system flexibly captures signals and solves problems with 14 dedicated advanced triggers and 33 automatic measurement functions.

Parameter	R&S®Scope Rider RTH	Chauvin Arnoux OX 9000 series
<b>Acquisition system</b>		
Analog bandwidth	60 / 100 / 200 / 350 / 500 MHz	60 / 100 / 300 MHz
Sampling rate (max.)	5 Gsample/s	2.5 Gsample/s
Vertical resolution	up to 16 bit (with high-resolution decimation)	12 bit
Memory (max.)	up to 500 ksample per channel	100 ksample per channel
History and segmented memory	up to 5000 waveforms with full analysis possibilities	not available
Data logger	8/4 Msample (max. 2 Msample per logging channel)	100 000 measurement points
Acquisition rate	50 000 waveforms/s	not specified
Trigger types	14 trigger types (digital trigger)	4 trigger types
Mask testing	tolerance tube	not available
Protocol trigger and decode	I <sup>2</sup> C, SPI, UART/RS-232/RS-422/RS-485, CAN/LIN, CAN-FD, SENT	simple integrity test for serial buses
Automatic measurement	33 measurement functions	20 measurement functions
Mixed-signal functionality	optional: 8 logic channels with 125 ksample, 250 MHz bandwidth and 1.25 Gsample/s sampling rate	not available
<b>Accuracy</b>		
Display	7" capacitive touch, 800 × 480 pixel	7" capacitive touch, 800 × 480 pixel
CAT safety rating	CAT IV 600 V / CAT III 1000 V	CAT III 600 V / CAT II 1000 V
<b>Form factor</b>		
Connectivity	2 USB, LAN, WLAN <sup>1)</sup> , microSD, external trigger I/O, logic probe	USB, LAN, WLAN, microSD

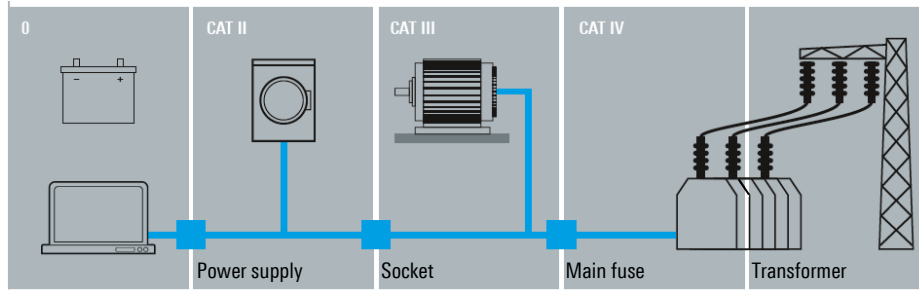
<sup>1)</sup> WLAN is available with regional limitations



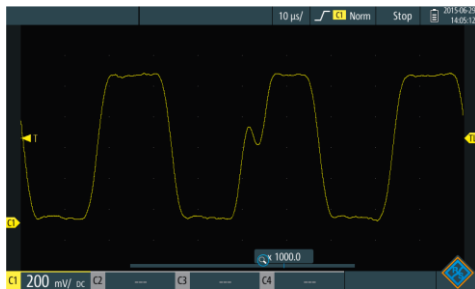
## Maximum safety in all environments

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

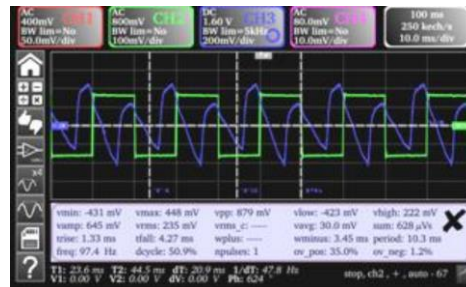
Chauvin Arnoux OX 9000 series CAT III 600 V / CAT II 1000 V



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



R&S®Scope Rider RTH: zoom details with high resolution



Chauvin Arnoux OX 9000 series: limited resolution for long recordings

## Deep memory for deep insights

Deep memory enables long periods to be captured at the maximum resolution. This allows signal details to be inspected with high zoom factors and signal faults to be found, even if they are far away from the trigger point, as in the example above. Combined with a serial protocol analysis option, the memory allows a complete sequence of serial communications to be captured.



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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