

Comparison with RA2300MK II

Function (recording)



	RA3100	RA2300MK II
Recording function	<ul style="list-style-type: none"> ◆ Abolished the distinction between modes Measurement is possible by combining memory recording / SSD recording / printer recording 	<ul style="list-style-type: none"> ◆ Select Pen Record / HD / Memory / Multi / XY mode
Memory recording	<ul style="list-style-type: none"> ◆ Sample speed: Maximum 20 MS/s (when using analog 18ch) ◆ Memory volume: Maximum 4 GB ◆ Memory division: 1 to 200 divisions ◆ Record length: 2000 to 2 GW/ch (1-2-5 steps) ◆ Maximum recording time: 100 days 	<ul style="list-style-type: none"> ◆ Sample speed: Maximum 1 MS/s (when using analog 16ch) ◆ Memory volume: Maximum 64 MB (32 MW/ch) ◆ Memory division: 1, 2, 4, 8, 16, 32, 64, 128 divisions
SSD recording	<ul style="list-style-type: none"> ◆ Maximum 1 MS/s (when using analog 36ch) ◆ SSD capacity: 256 GB (standard) ◆ Past waveforms can be played back even during recording 	<ul style="list-style-type: none"> ◆ Maximum 1 MS/s (when using analog 1ch) ◆ HDD capacity: 320 GB (RA2300Mk2) ◆ SSD capacity: 256 GB (RA2300MK2-S)
Printer recording	<ul style="list-style-type: none"> ◆ Paper feed rate 100mm/s to 1 mm/min ◆ Paper width 219.5 mm ◆ Effective recording width 200 mm ◆ Printer recorded data is also recorded and played on SSD ◆ Past waveforms can be played back even during recording 	<ul style="list-style-type: none"> ◆ Paper feed rate 100mm/s to 1 mm/min ◆ Paper width 219.5 mm ◆ Effective recording width 200 mm

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Function (Other)



	RA3100	RA2300MK II
Y-T display	<ul style="list-style-type: none"> ◆ 1 graph ◆ Measurement channel is divided into 3 sheets and displayed, 48ch per sheet. ◆ Vertical 20 div, horizontal 20 div 	<ul style="list-style-type: none"> ◆ Graphs 1 to 16 ◆ 16ch display
FFT display	<ul style="list-style-type: none"> ◆ FFT analysis during recording and monitoring ◆ FFT analysis of analog waveforms of up to 2 channels ◆ Supports 1000 points, 2000 points, 5000 points, and 10000 calculation points 	<ul style="list-style-type: none"> ◆ FFT analysis only during playback ◆ FFT analysis of analog waveforms of up to 2 channels ◆ Supports 1000, 2000, and 4000 calculation points
X-Y display	<ul style="list-style-type: none"> ◆ Supports up to 4 X-Y graph drawings 	<ul style="list-style-type: none"> ◆ Supports 1 X-Y graph drawings
Language Support	<ul style="list-style-type: none"> ◆ Japanese /English / Chinese / Korean 	<ul style="list-style-type: none"> ◆ Japanese / English

Comparison with RA2300MK II

Hardware (module)



RA3100	RA2300MK II
2ch voltage module (voltage ± 500 V, 2ch, 16 bit, 1 MS/s, *1)	2ch high resolution DC amplifier (voltage ± 500 V, 2ch, 16 bit, 100 kS/s) 2ch high-speed DC amplifier (voltage ± 500 V, 2ch, 12 bit, 1 MS/s) 2ch FFT amplifier (voltage ± 500 V, 2ch, 16 bit, 100 kS/s, sensor power supply, *1)
4ch voltage module (voltage ± 200 V, 4ch, 16 bit, 1 MS/s)	N/A
2ch high-speed voltage module (voltage ± 500 V, 2ch, 12 bit, 20 MS/s)	None
2ch temperature module (thermocouple/RTD, 2ch, 24 bit, 1 kS/s)	2ch TC/DC amplifier (voltage/thermocouple, 2ch, 15 bit, 100 kS/s)
16ch logic module (contact, 16 points)	Event amplifier (contact point, 8 points)
Remote control module (remote control, TRIG IN/OUT)	Remote unit (RA23-144) TRIG IN/OUT
To be developed: 2ch AC strain module	2ch AC strain amplifier (AC distortion, 2ch, 16 bit, 100 kS/s)
To be developed: 2ch High-Voltage module	None
To be developed: 2ch Frequency module	F/V converter (voltage ± 100 V, 1ch, 1 to 10 kHz)
To be developed: 2ch Acceleration module	2ch vibration / RMS amplifier (voltage/vibration, 2ch, 16 bit, 100 kS/s, RMS conversion, sensor power supply)

*1: Compatible with anti-aliasing filters