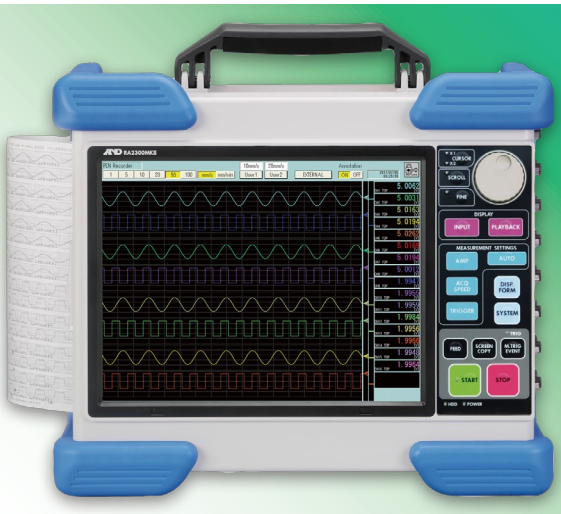
Data Acquisition System
Omniace



RA2300MKⅡ (HDD model)
RA2300MKⅡ-S (SSD model)
NEW!

The RA2300MKII Ominiace is a data acquisition device that enables you to acquire/record data with simple operation. Reduced condition setting time and easy measurement can be realized by virtual amplifier setup, a touch-panel and dynamic waveform display on a large LCD. The RA2300MKII features with various measuring modes such as HD Recorder (for long-term recording on a 160GB HDD) or Memory Recorder (for fast-speed event recording).
The RA2300MKII will bring you success in many measuring opportunities such as production line, quality inspection and R&D.

Features

Easy oscilloscope
Easy operation of Oscilloscope was realized by virtual amp. setup display and touch panel without complicated settings.

Various features at playback mode
Various search functions are available for finding certain points in large data easily after long-term recording. Fast search using a thumbnail bar (displays all recorded data of selected one channel) and jump search (max/min, time, etc.) available.

Direct input from sensors
Signals from various sensors can be input directly using 9 amplifiers (voltage, strain, temperature, vibration, pressure, rotation pulses, etc.)

Display input waveform on a large screen
A large 12.1" LCD for better visibility of measured data.

Long-term HDD/SSD recording
Long-term & high speed data recording to internal 160GB HDD.
SSD can be chosen as an optional item.

Standard LAN & USB ports
LAN (100BASE-TX) for data communication and USB for external storage devices (USB memories) are standard interfaces.

Standardized FFT/Calculation unit.
RA2300MKII comes with conventionally optional RA23-751 as standard.

Improved vibration resistance (RA2300MKⅡ-S)
The RA2300MKII-S can withstand transportation in vehicles with rigid suspension as well as the harsh environmental conditions on land and sea transport. (satisfies 2G requirement)
Standard: IEC60068-2-64

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Direct input from sensors

9 types of AP amplifiers including voltage, temperature, strain, vibration and frequency (pulse) are available and they enable every signal to direct input.

Item	Model No.	Sampling	Resolution	Description
2-ch high resolution DC amp.	AP11-101	10 μs	16-bit	DC amp for high resolution measurement
2-ch high speed DC amp.	AP-11-103	1 μs	12-bit	DC amp for high speed measurement
2-ch zero suppression amp.	AP11-111	10 μs	16-bit	DC amp for gaining signal changes by eliminating offset element of input signals
2-ch FFT amp.	AP11-102	10 μs	16-bit	DC and vibration amp to prevent high frequency loop-back
Event amp.	AP11-105	1 μs	N/A	Amp for recording open/close for contact or H/L voltage
2-ch TC/DC amp.	AP11-106A	10 μs	15-bit	Input amp for thermocouple (R, T, J, K and W) and voltage
2-ch AC strain amp.	AP11-104A	10 μs	16-bit	Strain amp which reduces influence of external noises (AC bridge system)
2-ch DC strain amp.	AP11-110	10 μs	16-bit	Strain amp with DC bridge system
2-ch vibration/RMS amp.	AP11-109	10 μs	16-bit	DC/vibration amp for measuring signals in RMS

Basic specifications

Display		12.1-inch TFT color LCD. Effective screen area: 245.76mmx184.32mm (1024x768 pixels)
Channel		16ch (8 slots) + digital input 16ch (optional)
Printer	Printing method	Thermal printing using a thermal head
	Paper width	219.5mm
	Effective recording width	1 division (200mm, FS) to 16 divisions (10mm, FS), number of division and printing width can be changed.
	Channel discrimination	Prints channel number in the vicinity of the printed waveform. The ON/OFF function is available.
	Grid pattern	Standard (10mm, 5mm), 10mm, 5mm, No grid
Battery backup		Clock, Setting value: approx. 3 to 5 years (using a primary battery)
Storage device		160GB hard disk drive (HDD), USB memory.
Interface		Ethernet, USB: standard ***Ethernet has basis over CAT5 (shielded)
Compatible specifications		RS-232C, Remote terminal: optional EMC: EN1326 A1/A2/A3
Operating environment		Safety: EN61010-1 Temperature: 5 to 40℃, Humidity: 35 to 80%RH (without condensation)
Power supply		90 to 264VAC, frequency 50 to 60Hz
Power consumption		100VA (typical): with AP11-101 x 8 units (approx. 300VA max)
Dimensions		Approx. 400(W) x 176(H) x 374.5(D) mm
Weight		8.5kg or less (main body only), 9.2kg or less (main body with AP-11-103 x 4 units)

Communication & storage specifications

HDD	Function	Setting conditions of main unit and save/read out of measures data
	Capacity	160GB (system domain 5 GB + data storage space 155GB)
SSD	Function	Setting conditions of main unit and save/read out of measures data
	Capacity	256GB (system domain 5 GB + data storage space 251GB)
Ethernet	Function	Control with communication command. Windows and file sharing with Windows PC
	Capacity	100 BASE-TX
USB	Function	Data saving on storage device by USB connection
	Standard	2.0
	Available storage device	USB memory

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