The best solution for your applications



R9211 Series





Powerful servo analysis functions

FFT Servo Analyzer R9211B/C

- Dynamic servo analysis of more than 130 dB
- Linear and log multi-sine sweep signal built-in
- Curve-fit and synthesis function (R9211C)



R9211B and C provide the capability for servo-analysis through the ultra-high precision control of the drive units of the robots, VCRs, CD players, and hard disk drives. In particular, R9211C designs, simulates, and evaluates servo systems quickly by the use of the servo measurement function and the curve-fit and synthesis function.

Major specifications

- Number of input channels: 2
- A/D resolution: 16 bits
- **Frequency span:** 10 mHz to 100 kHz (1, 2, and 5 steps) **Dynamic range:** 85 dB or more
- **Maximum input sensitivity:** -125 dBV (approx. 0.56 μVrms) (-140 dBV, 2 kHz range)
- **Power supply for acceleration meter:** Input coupling is available for AC only.
- Measurement mode: Servo measurement, frequency response function measurement, time-frequency measurement, spectrum, and waveform
- Frequency table servo function: linear/log frequency table Signal source for servo measurement: Linear/log sine sweep,
- linear multi-sine sweep, and log multi-sine sweep Go/No-Go judgment by comparator function: R9211C
- Curve-fit and synthesis function: R9211C
- Running zoom function (R9211C): Minimum span 100 mHz (≧ 10 kHz), Minimum span 10 mHz (< 10 kHz)



Measurement of the loop gain of the switching power supply





 Open loop measuremen of switching power supply (Board diagram)

Plentiful analysis functions and various display functions

FFT Analyzer R9211A/E

- Dynamic measurement range of 90 dB (typical value), maximum input sensitivity of -140 dBV or more
- New applications using the time-frequency analysis
 function
- Running zoom function with a minimum span of 10 mHz (R9211A)



R9211A and E analyze the voices of people and animals, acoustics of instruments and halls, city noises, vibration and noise from cars, constructions, and building machines. They serve as powerful tools for measuring the mechanical characteristics of optical and magnetic disks, analyzing audio signal distortions, analyzing transient signals, and measuring frequency response functions.

Major specifications

Number of input channels: 2

A/D resolution: 16 bits

- Frequency span: 10 mHz to 100 kHz (1, 2, and 5 steps)
- Dynamic range: 85 dB or more

Maximum input sensitivity: -125 dBV (approx. 0.56 μVrms), -140 dBV (2 kHz range)

Power supply for acceleration meter: Input coupling is available for AC only.

Measurement mode: Frequency response function measurement, time-frequency measurement, spectrum, and waveform

Summing amplifier: Can be turned on and off.

Running zoom function (R9211A): Minimum span 100 mHz (≧ 10 kHz), Minimum span 10 mHz (< 10 kHz)



ACCESSORIES

Impulse hammer with low output impedance and voltage output (Made by DYTRAN)

The impulse hammer provides you with an easy and simple method for measuring the mechanical impedance or resonance characteristics of structures.

Model name	AHB5800SL Super-light-model	AHB5850A Three-range model 150	
Head weight (g)	2.0		
Force range (16-F)	50	50, 500, 5000	
Nominal sensitivity (mV/lb)	100	100, 10, 1	
Sensor resonance frequency (kHz)	300	50	

Acceleration sensors with built-in amplifiers (Made by ENDEVCO)

A wide selection of vibration detection elements are available for the measurement of vibration and shock. This allows the best method to be selected for specific applications.

Model	Sensitivity (mV/g)	Response frequency (Hz)	Resonance freguency (Hz)	Anti-G (G)
2250A-10/2250AMI-10	10	4~15,000	80,000	2,000
7250A/7250AMI	2/10	4~20,000	85,000	10,000
7254-10, -100	10/100	1~10,000	45,000	5,000
7259A-1, -10	1/10	5~30,000±1dB	150,000/100,000	10,000
7251-10, -100	10/100	1~10,000	45,000	5,000
2256-10, -100	10/100	1~5,000	20,000	2,000

ADVANTEST.

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