

## Topics this Month

### ◆ Renewal ! Frequency Response Measurement Software OS-4100 ◆

#### What is the **Frequency Response Analysis? (FRA)**

Vol.31 explains the basics of this analyzing method and some application

#### OS-4100 Frequency Response Analysis

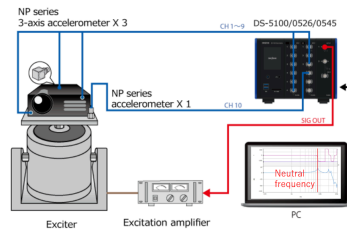
By measuring the relations between two coherent electrical signals, you can evaluate the efficiency of your mechanical system's signal input/output response using the method often referred to as Frequency response Analysis.

This system is widely used for

- Acoustic characteristics of speakers
- Motor control,
- Servo analysis
- Coupling response characteristics
- Battery impedance characteristics etc.

## How Are They Used?

Below, we highlight the major application configuration using FRA.

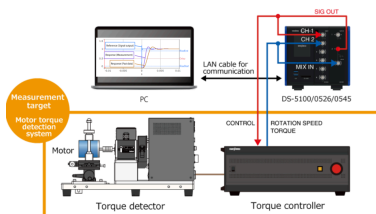


### Frequency Resonance Measurement

Measure quickly and accurately while shifting excitation frequency (FRA method).

Target object is placed on an exciter and the ratio of the excitation signal (power) to the response signal (acceleration) is calculated.

Then you can check the natural frequency of the target object.



### Motor Control Performance

Measures the actual motor performance against the input command to the motor.

Our System can simultaneously measures the rotation speed and other sensors, and calculates the step command delay value for the input command.

## Application Examples

### ◆ Three Key Advantages of Our OS-4100 FRA System

1. High Precision and Speed: Measure Frequency Response Functions of Various Targets with High Precision and High Speed.
2. Visualize Versatility: Display a Variety of Graphs as You Want Them to Be
3. One Hardware, Multiple Applications: Seamlessly Transition from Control Characteristic Measurements to Noise and Vibration Analysis.



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