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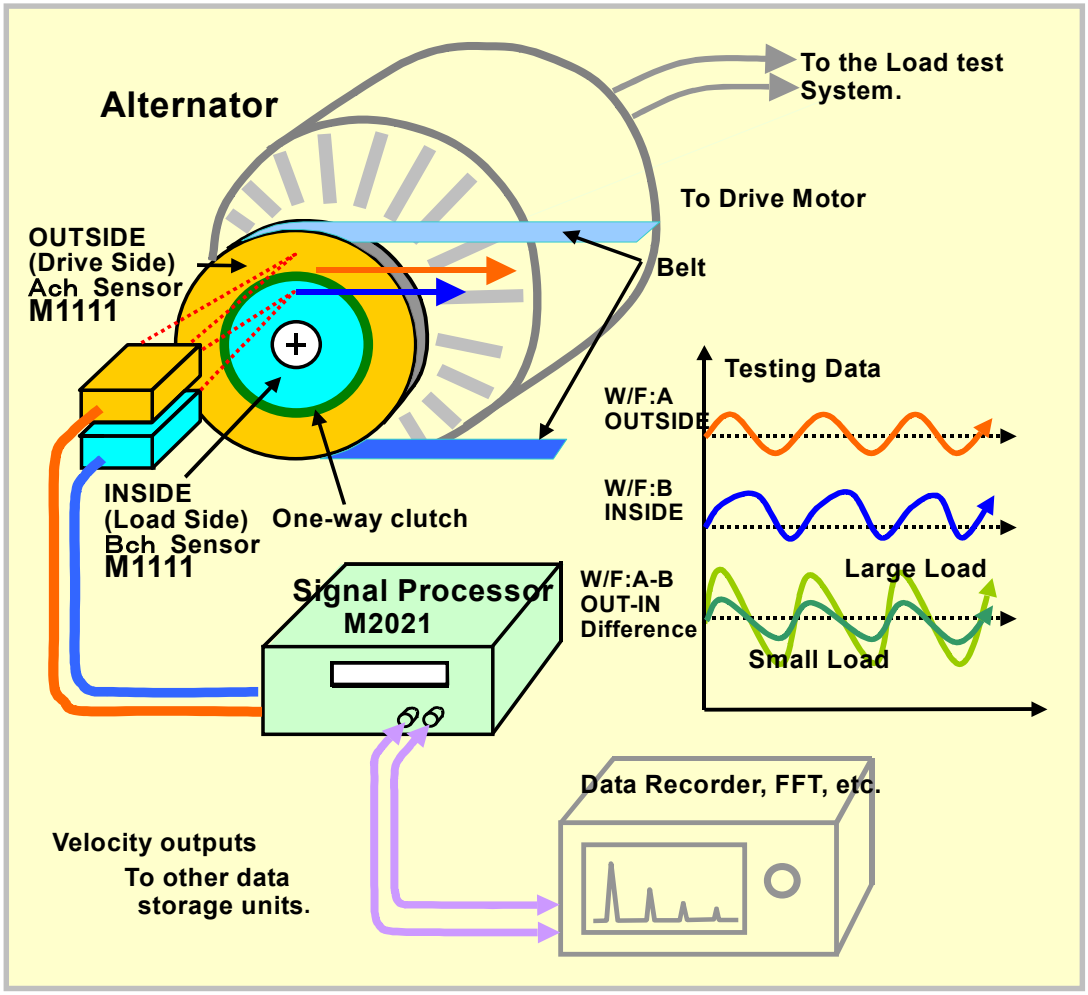
MODEL-2021 Application

Automobile: Load test of a Alternator.

10.06.1Apply to M2021



Load testing measurement of car alternator (generator)

Supplying the electric power stably is one of the important issues in recent years as a lot of electrical equipments are used in the car. Then, the importance of the alternator has increased. The ability requested to the alternator is not only power generation. A highly effective and intelligent ability are required like a regenerative braking system to the aspect of energy saving technology.

This example shows **the velocity variations**, which measured at two **simultaneous channels** as inside and outside of the clutch.
And, because the difference of the **velocity variation (WF: Wow and Flutter)** in two places can be operated, a dynamic measurement is possible accurately in any rotation.

MODEL-2021 uses the optical method for velocity measurement. This method is **Non-contact** measuring system therefore the measurement does not require the alignment of axes and coupling such as for a rotary encoder.
The measurement result by using this system has **no interference** from **colours** and **any other status on the surface** of the object, and also this optical measuring method does not apply any pressure on rotations. This feature is available for detecting imperceptible value of velocity variation.