

Stress Measurement in Finished Vehicles

Measuring chassis stress during vehicle operation

- Measure chassis stress while the vehicle is being driven.
- Use a recorder to measure multiple locations simultaneously.
- Operate the recorder on battery power to facilitate a broad range of applications.



Stress testing of finished vehicles consists of measuring the deformation of the chassis due to stress while it is being driven. To test for deformation, strain gauge foils are applied to various parts of the chassis. Because multiple locations must be tested, the ability to measure all points simultaneously under the same driving conditions will ensure consistency in the variables and reduce testing time. The Hioki MR8875 meets this application perfectly by delivering multi-channel input via strain input units.

With the MR8875, you can also easily check measured waveforms using the color monitor. In addition, the recorder can be directly powered with the vehicle's battery to enable onboard operation during driving tests without the need to use a separate power supply or power source. An optional CAN Unit MR8904 or GPS Unit Z5005 can be used to record mixed input including CAN signals, position information, and other data. Note that stress testing requires separate strain gauge foils and bridge boxes that should be provided by the customer.

* Please contact Hioki for more information about availability of cords for connecting the instrument to a vehicle battery.

Products used

MEMORY HiCORDER MR8875

STRAIN UNIT MR8903