

# Airbag Connector Testing

## Interface Mini™

Industry: Automotive and Vehicle

### Summary

#### Customer Need / Challenge

Testing airbag connectors functionality is needed to ensure perfect deployment in case of a car crash. There are eight to twelve connectors installed in each vehicle, and tests are needed to be made in order to clarify the connectors are working effectively. These connectors usually work when latched, but that does not ensure the electrical properties are working. The amount of force needs to be tested in order to see when an electrical current is connected.

#### Interface Solution

Interface's solution is to attach the WMC Sealed Stainless Steel Miniature Load Cell to the actuator of the test rig. The airbag connector is held in place at the bottom of the test rig. Forces are applied and measured using the 9330 High Speed Data Logger as the connector is pushed down to latch together. Results can be logged, downloaded, and reviewed when connected to a PC or laptop.

#### Results

The customer was able to measure the amount of force it took to latch the airbag connector, in order to detect the electrical current and proceed with more testing.

### Materials

- WMC Sealed Stainless Steel Miniature Load Cell
- 9330 High Speed Data Logger
- Customer PC or Laptop

### How It Works

1. The WMC Sealed Stainless Steel Miniature Load Cell is attached to the test rig.
2. The actuator of the test rig presses down onto the airbag connector until it latches. The WMC collects the force measurements.
3. Data can be reviewed using the 9330 High Speed Data Logger, and the customer can determine the exact force measurement when electrical contact has been made. Results can be logged, downloaded, and reviewed when connected to a PC or laptop.

