GRAPHTEC

Application:
Reliability Testing for Automotive Window Parts

Transportation (Vehicle, Components) | Quality assurance | Ref. No.: AP0272

Solving Production Quality With Strain Gauge Application

Windshield manufacturing process includes coating the outer peripheral portion of the window in several layers of materials. When coating process is not accurate, cracks and air may get within the process delaying the production and ultimately yielding manufacturing defects. Force testing for the production quality of the layering process verifies the roller quality and leads to successful implementation for a safe and successful production yield.

Model & its Configuration

GL7000 + GL7-DCB + GL7-DISP

Outline of Measuring items & its Sensors

Distortion	Strain gauge

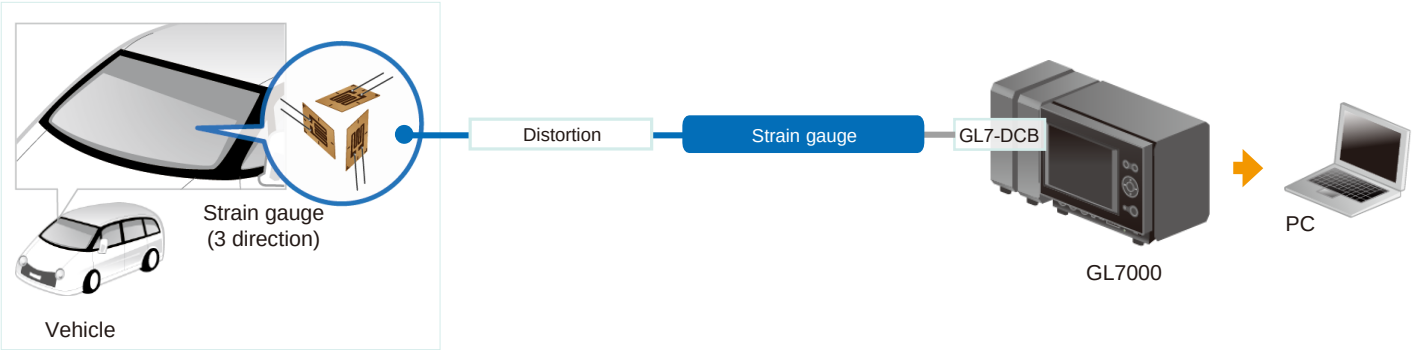
Outline of the Measuring Conditions

Sampling: 10 S/s (100 ms) | Channel: 3 channels

Measuring time: 1 minute

Advantages in using Graphtec Product

1. Easy operation by touch panel display.
2. Standalone Datalogging using modular platform.
3. Direct Bridge amplifier for TEDS compatible and various strain gauge-based sensors.
4. Channel to Channel Isolation (16-bit).



Modular Type Data Acquisition Unit
DATA PLATFORM GL7000

High Speed | Multi-channels | High Voltage | Large Memory Capacity

* Display and modules are optional.

- Input modules can be expanded to accommodate wide variety of measurements (One main unit expands up to 7 DCB module).
- Attaching the high-definition display module with a touch panel capability allows both stand-alone operation and a system-embedded solution.
- Connect to PC using USB 2.0 or RJ-45 LAN Ethernet cable.
- 4 destinations to save the captured data (Built-in RAM, Built-in Flash memory, SD memory card, and 128GB SSD module).
- Free Software for high performance and quick simple test operation (GL-Connection).

Voltage GL7-V	Voltage/ Temperature GL7-M	High Speed Voltage GL7-HSV	High Voltage GL7-HV	DC Strain GL7-DCB	Charge GL7-CHA	Voltage Output GL7-DCO	Logic Pulse GL7-L/P
							

Module GL7-DCB

Strain, Voltage, Res. 4ch/unit | Max. 100kS/s (10µs) | Strain gauge, TEDS sensor

Measurement of Strain, load, displacement, vibration, acceleration, torque, pressure for various test by using the strain gauge or the strain gauge type sensor.

- Supports direct strain gauge measurement and load cells carrying strain sensors and gauges.
- Supports excitation power and elements for bridge circuit enabling direct connection to the sensors.
- Supports voltage and resistance measurement

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