

Application:

**Evaluation test of cutting operation**



Electric equipment



Quality assurance

Ref. No.:

AP0273

## Measuring strain using GL7000

In the manufacturing process of board assembly, components are mounted on the PCB and then the PCB is cut. The component is soldered to the PCB, it will have stress by the cutting process. Components are soldered to the PCB, it may have damaged by influence of distortion created by the stress of cutting. Parameters such as the speed and force will be set as the standard for the cutting operation after the cutting test is executed.

### Model & its Configuration

GL7000 + GL7-DCB + GL7-DISP

### Outline of Measuring items & its Sensors

Distortion

Strain gauge

### Outline of the Measuring Conditions

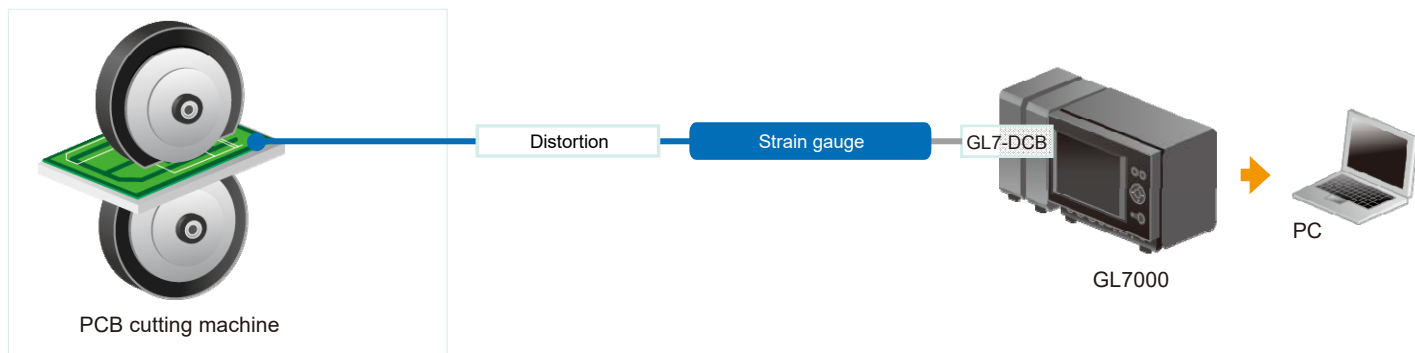
Sampling: 10 S/s (100 ms)

Channel: 2 channels

Measuring time: 1 minute

### Advantages in using Graphtec Product

1. Easy operation with touch panel



## Modular Type Data Acquisition Unit DATA PLATFORM GL7000



High Speed

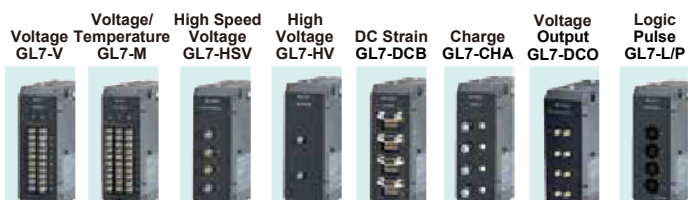
Multi-channels

High Voltage

Large Memory Capacity

\* Display and modules are optional.

- Input modules can be expanded to accommodate wide variety of measurements (expand up to 10 modules)
- Attaching the high-definition display module with a touch panel capability allows both stand-alone operation and a system-embedded solution
- 2 interfaces to connect the GL7000 to PC (USB and Ethernet)
- 4 destinations to save the captured data (Built-in RAM, Built-in Flash memory, SD memory card, and SSD module)
- Software for high performance and easy operation (GL-Connection)



## 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 strain gauge and the sensor based on the strain gauge
- Supports excitation power and element for bridge circuit, enables direct connection
- Supports voltage and resistance measurement