

# Battery-related measurements



This system measures the phenomena of deformation caused by thermal expansion of component that fixes the storage battery (lithium-ion battery) to a device. Real-time measurement of strain in the battery case, axial force of anchor bolts (screws), and temperatures are facilitated by high-speed sampling while displaying the numerical and graphical monitoring data.

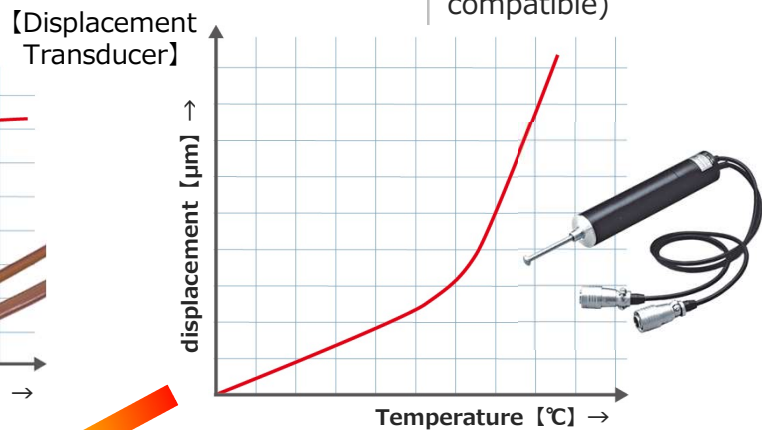
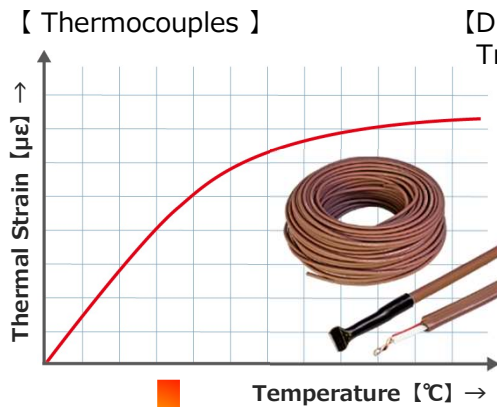
## 【 Examples of products 】

**Thermocouples**  
T, K

**Displacement Transducer**  
CDP(5mm~100mm)  
CDP-M(5mm~100mm)

**Strain Gauge**  
General use,  
High Temperature Use

**Axial force bolt**  
Bolt with embedded strain gauge  
Bolt with pasted strain gauges on the surface with adhesive (load calibration compatible)



**NEW** T-ZACCS 9  
TS-960

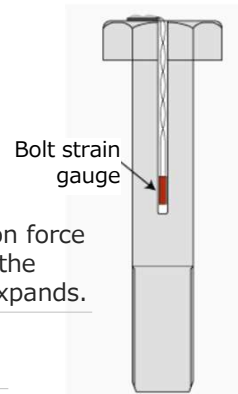


【 strain gauge 】



【 Axial force bolt 】

Axial bolt compression force is measurable when the lithium-ion battery expands.



**Point**

- ✓ Embedding and calibrating the strain gauge in M3 bolt (temperature characteristic test data)
- ✓ Compatible with strain gauges with the temperature measuring function.  
Real-time display of principal strains, principal stresses, and temperature compensated strain data.
- ✓ Capable of real time measuring of axial force bolt data while processing temperature compensation

Load-calibrated test reports and temperature characteristic test data are provided.

In addition, the newly developed embedded strain gauge for machined 0.8 mm bore facilitates the embedding in the **M3 size**.

