

**Servo-type  
Acceleration Sensor  
LT – SA03-XX**



**Use**

Building, Structure status monitoring  
Vibration monitoring in construction site  
Vibration monitoring of bridge or tunnel

**characteristics**

3-axis servo-type Acceleration Sensor  
0 ~ 100 Hz frequency characteristics  
± 1, 2G (Peak) measurement  
3-axis measurement  
±12 DCV

**Specifications**

**Dynamics**  
Frequency range : 0 ~ 100 Hz(± 3dB)  
Measurement range : ±2.0 G(± 5%)  
(0.1G, 0.5G, 1G, 2G, 4G possible)  
Sensitivity : 2,500 mV/G  
Dynamic Range : 120 dB  
Damping : 70% of critical

**Electrical**  
Output voltage : ± 2,500 mV  
Input : ±12 DC V, 50mA  
Initial time : 2 Seconds Max  
Useful Distance : Max 20m

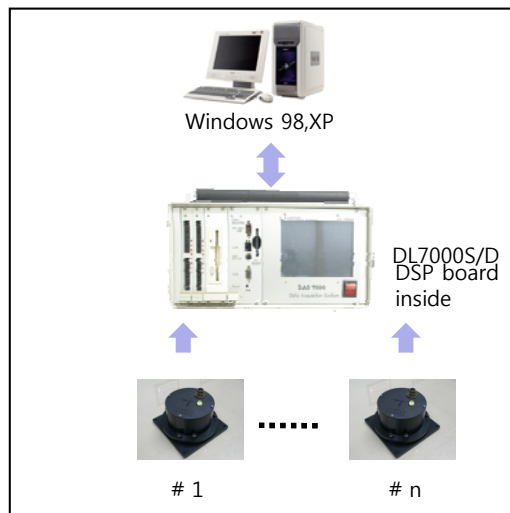
**Mechanical**  
Case material : SUS 304 or AL  
Case size : Φ 190 x 70 mm  
Weight : 1Kg

**Environmental**  
Operating Temperature : -20 ~ +80 °C  
Storage Temperature : -40 ~ +100 °C

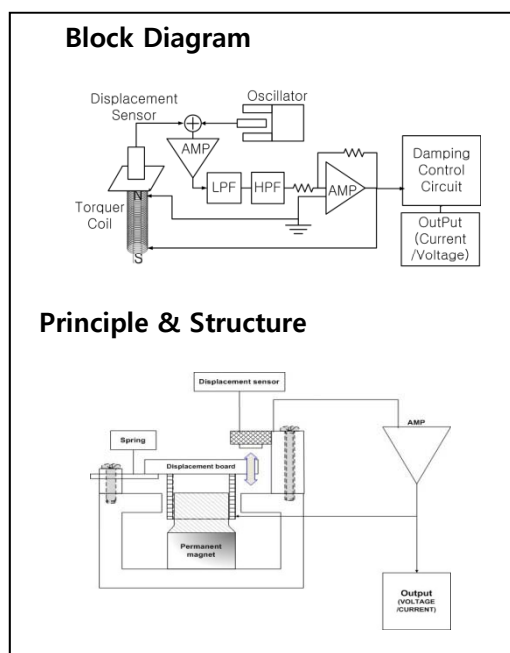
**Environment**

- Possible Area for Sensor care
- Fixed to base
- Impossible Area for Sensor care
- Fixed to base
  - Mandatory use of sensor cover

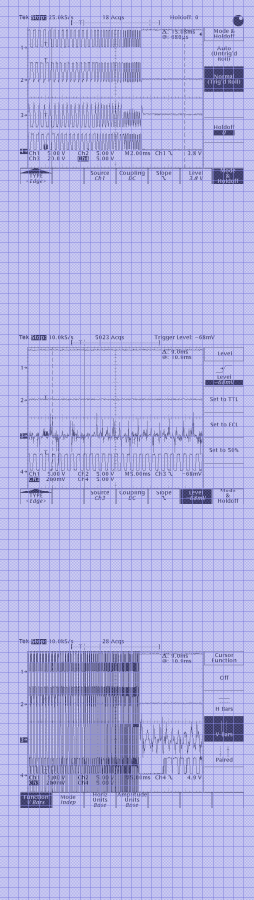
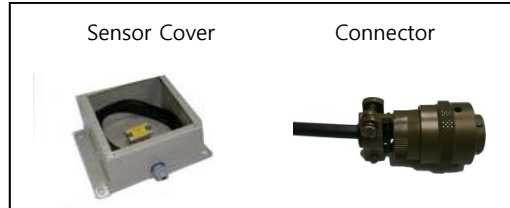
**System Organization**



**System Summary**

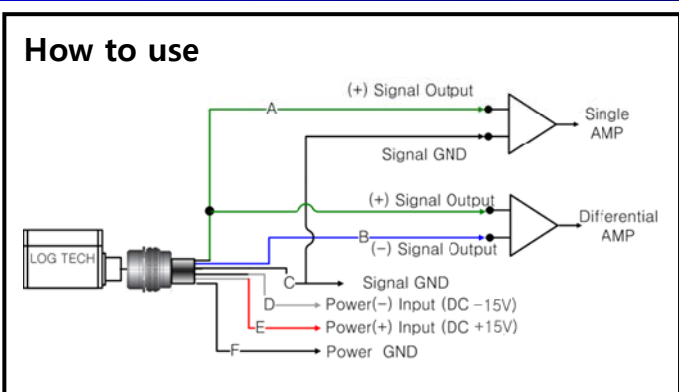


**Other Products**



### Sensor

Hole for fix	4.6mm		
Screw for fix	M4 x 30mm		
Connector jack	MS3102A		
□A	18mm	□C	31mm
□B	22mm	□D	15mm



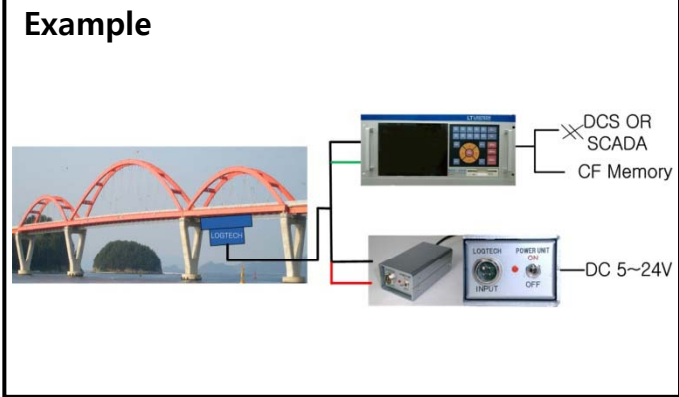
### Connector

✧ Cable is not supply

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### How to install

(O) Correct install      (X) Incorrect install



### Product Number (How to select)

LT - SA - **03** - **01** - **01** - **03** - **A** - **O**

- Input voltage: O : Option( DC 9 ~ 24 V )
- Output voltage: A : AC Output voltage( ± 2.0 ~ 5.0 V )
- Cable length: 03 : 3m, 05 : 5m, L : Length Option, C : Connector Option
- Frequency range: 01 : 0 ~ 50 Hz, 02 : 0 ~ 100Hz
- Acceleration range: 01 : ± 1 G(PEAK), 02 : ± 2 G(PEAK)
- Axis range: 01 : 1-Axis, 02 : 2-Axis, 03 : 3-Axis