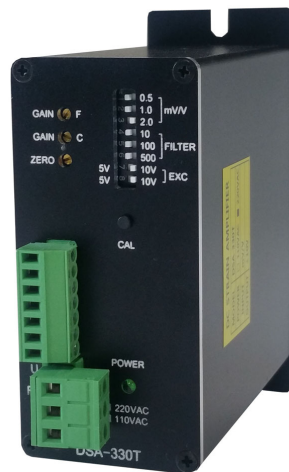


MODEL : DSA-330T \_\_\_\_\_  
DYNAMIC STRAIN AMPLIFIER

# User's Manual



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## 1. Prefix

This Amplifier is Dynamic Strain Measure meter of DC Voltage type.

## 2. Characteristics

- Multistage Filter construction & Filter-enable, disable function
- Zero adjustment by Volume.
- Adjustment by Dip-S/W

## 3. Specification.

- Measurement marks : 1ch / ea.
- Measuring method : Deflection Method
- Working gauge :  $350\Omega$ ,  $120\Omega$  (  $120k\Omega$  Cal Resister ).
- Bridge 접압 : DC 5V, DC 10V ( Front Dip Switch Selectable ).
- Output : 0 -  $\pm 10V$ .
- Non-linearity : 0.02%.
- sensitivity adjustment rate : 0.5mV/V - 3.5mV/V.
- Response frequency characteristic : DC - 1kHz (-3dB).
- Low Pass Filter : 10Hz, 100Hz, 500Hz, W/B.
- Working temperature : 0~60°C.
- Power : AC220V 60Hz.

## 4. CALIBRATION.

- Cal Resister  $120k\Omega$  (0.1%).
- Setting Amp.
  - 4-1) Check if the gauge is 350 Ohms or 120 Ohms.
  - 4-2) Connect to the sensor, set B.V, and power on.
  - 4-3) Set Gain.
    - 4-4) Turn the Zero volume to set the output voltage to 0V.
    - 4-5) Apply the load and adjust the SPAN value using GAIN C , F.
  - 4-6) Shunt Cal Functions
    - \* How to use.
      - After setting up the sensor and AMP, press the button.
      - Check the analog output value of the AMP (using Digital Meter)

- Record the value output from the Digital Meter (CAL value).
- \* remedial method.
  - For long-term use, check the CAL value of the sensor and AMP before calibrating.
  - With the CAL button pressed, check the AMP's analog output and set it again by comparing it to the calibration value.
  - When resetting, adjust the GAIN volume while holding the CAL button pressed (the initial CAL value matches).

## 5. OPTION.

- 0-+/-10V ( standard ).
- 4-20mA ( Option ).

## 6. How to use.

- Filter adjustment.

	10Hz	100Hz	500Hz	W/B
SW4	OFF	ON	OFF	OFF
SW5	ON	OFF	OFF	OFF
SW6	OFF	OFF	ON	OFF

- Bridge voltage adjustment.

	10V	5V
SW7	ON	OFF
SW8	ON	OFF

- Amplitude adjustment..

	0.5mV/V	1.0mV/V	1.5mV/V	2.0mV/V	2.5mV/V	3.0mV/V	3.5mV/V
SW(0.5mV/V)	ON	OFF	ON	OFF	ON	OFF	ON
SW(1.0mV/V)	OFF	ON	ON	OFF	OFF	ON	ON
SW(2.0mV/V)	OFF	OFF	OFF	ON	ON	ON	ON