

MODEL : DN-AM100  
DYNAMIC STRAIN AMPLIFIER

# USER'S MANUAL

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## 1. Outline

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

- Feature
  - Multistage Filter construction, Filter-enable · disable function
  - Zero adjustment by Volume
  - Filtering, Bridge Voltage, Amplitude Adjustable by Dip-S/W

## 2. Specification

- ① Measurement marks  
: 1CH / EA
- ② Measurement established form  
: Deflection method
- ③ Workun Gauge  
: 350 $\Omega$ (Bridge voltage 10V), 120 $\Omega$ (Bridge voltage 5V)
- ④ Gauge rate  
: 2.00
- ⑤ Bridge voltage  
: 정전압 DC 5V, 10V(Dip switch 선택)
- ⑥ Measurement range :  
5V → 0 ~ 2000  $\mu$ strain  
10V → 0 ~ 4000  $\mu$ strain
- ⑦ Zero adjustment range  
:  $\pm 10$  % F.S
- ⑧ Gain adjustment range  
:  $\pm 10$  %
- ⑨ Sensitivity  
: 10  $\mu$ strain
- ⑩ Output  
: DC 0 ~  $\pm 10$ V or 4~20mA
- ⑪ Non-linearity  
: 0.02% F.S
- ⑫ S/N rate (Signal/Noise rate)  
: 51dB

- ⑬ Response frequency characteristic  
: DC~20kHz(-3dB)
- ⑭ Low Pass Filter  
: 10Hz, 100Hz, 1kHz, PASS
- ⑮ Working temperature range  
: -10 ~ +60°C
- ⑯ Temperature Drift  
: Zero movement → ±1 μstrain/°C 이내  
Sensitivity change → ±0.05% F.S/°C 이내
- ⑰ Power  
: AC 110V/220V ±10% 60Hz

### 3. Option

DC 4 ~ 20mA Current OUT

### 4. How to use

- ① Filter adjustment (ON = 1, OFF = 0)

DIP SWITCH	10Hz	100Hz	1kHz	PASS
SW1	1	0	0	0
SW2	0	1	0	0
SW3	0	0	1	0

- ② Bridge Voltage adjustment (ON = 1, OFF = 0)

DIP SWITCH	10V	5V
SW4	0	1

- ③ Gain adjustment (ON = 1, OFF = 0)

DIP SWITCH	X1	X100	X200	X300	X400	X500	X600	X700
SW5(X100)	0	1	0	1	0	1	0	1
SW6(X200)	0	0	1	1	0	0	1	1
SW7(X400)	0	0	0	0	1	1	1	1
SW8(X800)	0	0	0	0	0	0	0	0

DIP SWITCH	X800	X900	X1000	X1100	X1200	X1300	X1400	X1500
SW5(X100)	0	1	0	1	0	1	0	1
SW6(X200)	0	0	1	1	0	0	1	1
SW7(X400)	0	0	0	0	1	1	1	1
SW8(X800)	1	1	1	1	1	1	1	1

## 5. Dimension

