

Vol .1

MODEL : DN-ACM100 / DN-ACM200
DYNAMIC STRAIN AMPLIFIER

USER'S MANUAL

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1. Prefix

This Amplifier is Dynamic Strain Measure meter of AC type.

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

2. Specification

- ① Measurement marks
: 1CH / EA
- ② Application SENSOR
: ST-ACM100 - Differential trans LVDT (FULL/HALF TYPE)
ST-ACM200 - Differential trans Torquemeter (AC TORQUE DETECTOR TRC)
- ③ Sensor excitation
: AC $2V_{RMS}/4V_{RMS}$, 5kHz/10kHz
- ④ Zero adjustment range
: $\pm 10\%$ F.S
- ⑤ SPAN adjustment range
: $\pm 10\%$ F.S
- ⑥ Output :
: DC 0 ~ $\pm 10V$ or 4~20mA
- ⑦ Non-linearity
: 0.01% F.S
- ⑧ Response frequency characteristic
: 2kHz
- ⑨ Low Pass Filter
: 10Hz, 100Hz, PASS
- ⑩ Working temperature
: $-10 \sim +60^{\circ}C$
- ⑪ Power
: AC 110V/220V $\pm 10\%$ 60Hz

3. How to operate

① Filter adjustment (ON = 1, OFF = 0)

| DIP SWITCH | 10Hz | 100Hz | PASS |
|------------|------|-------|------|
| SW3 | 1 | 0 | 0 |
| SW4 | 0 | 1 | 0 |

② Sensor excitation (ON = 1, OFF = 0)

| DIP SWITCH | 2V _{RMS} | 4V _{RMS} |
|------------|-------------------|-------------------|
| SW1 | 0 | 1 |

③ Gain adjustment

• ST-ACM100 (ON = 1, OFF = 0)

| DIP SWITCH | VTR(Voltage transformation ratio)=sensitivity×displacement | | | |
|------------|--|-----|-----|-----|
| | 0.2 | 0.4 | 0.6 | 0.8 |
| G1 | 1 | 0 | 0 | 0 |
| G2 | 0 | 1 | 0 | 0 |
| G3 | 0 | 0 | 1 | 0 |
| G4 | 0 | 0 | 0 | 1 |

• ST-ACM200(ON = 1, OFF = 0)

| DIP SWITCH | R.O (Rated Output) | | | |
|------------|--------------------|---------|---------|---------|
| | 0.5mV/V | 1.0mV/V | 1.5mV/V | 2.0mV/V |
| G1 | 1 | 0 | 0 | 0 |
| G2 | 0 | 1 | 0 | 0 |
| G3 | 0 | 0 | 1 | 0 |
| G4 | 0 | 0 | 0 | 1 |

4 Dimension

