

SPECIFICATIONS

TSD-591

1/2

SPEC.No.EN382591-D

Static Strain Indicator for Tie Bar Gage

1. General

This instrument is the static strain indicator which can connect with maximum 4 sets of tie bar gage (one pair).

2. Specification

2-1. Specifications of analog

- Bridge power supply DC 2V \pm 0.02 V within 35 mA
- Target for measurement Tie bar gage (350 Ω type)
- Measuring method Displacement method
- Effect due to temperature variation
 - Zero point $\pm 0.2 \times 10^{-6}$ strain/ $^{\circ}$ C
 - Sensitivity ± 0.01 %F.S./ $^{\circ}$ C
(After 15 min. of warming up time)
- Effect due to time variation
 - Zero point $\pm 0.2 \times 10^{-6}$ strain/8 h
 - Sensitivity ± 0.01 %F.S./8 h
(Temperature variation width is within ± 2 $^{\circ}$ C)
- A/D sampling 16 times/s

2-2. Specifications of digital

- Display section Dot matrix type liquid crystal display(With back light LED type)

2-3. Function on setting program

- No. of files 20 pieces at maximum
- Setting contents ① Young rate, ② Diameter of tie bar (Round bar)
③ Decimal point position ④ Unit(kN, MN)

2-4. Tie bar analog output

- Analog output Tie bar output : 4, Tie bar average output : 1 (BNC connector)
- Output 0 V to ± 2 V (Load resistance 10 k Ω or more)
- Accuracy 0.5 %F.S. (Resolution 1/2 000)

3. Specification of measurement

- Measuring target Tie bar gage (350 Ω type)
- No. of measurement 4 set at maximum(one pair)
- Measuring range $\pm 15\,000 \times 10^{-6}$ strain
- Resolution 1×10^{-6} strain
- Accuracy ± 0.1 %F.S. ± 1 digit

SPECIFICATIONS

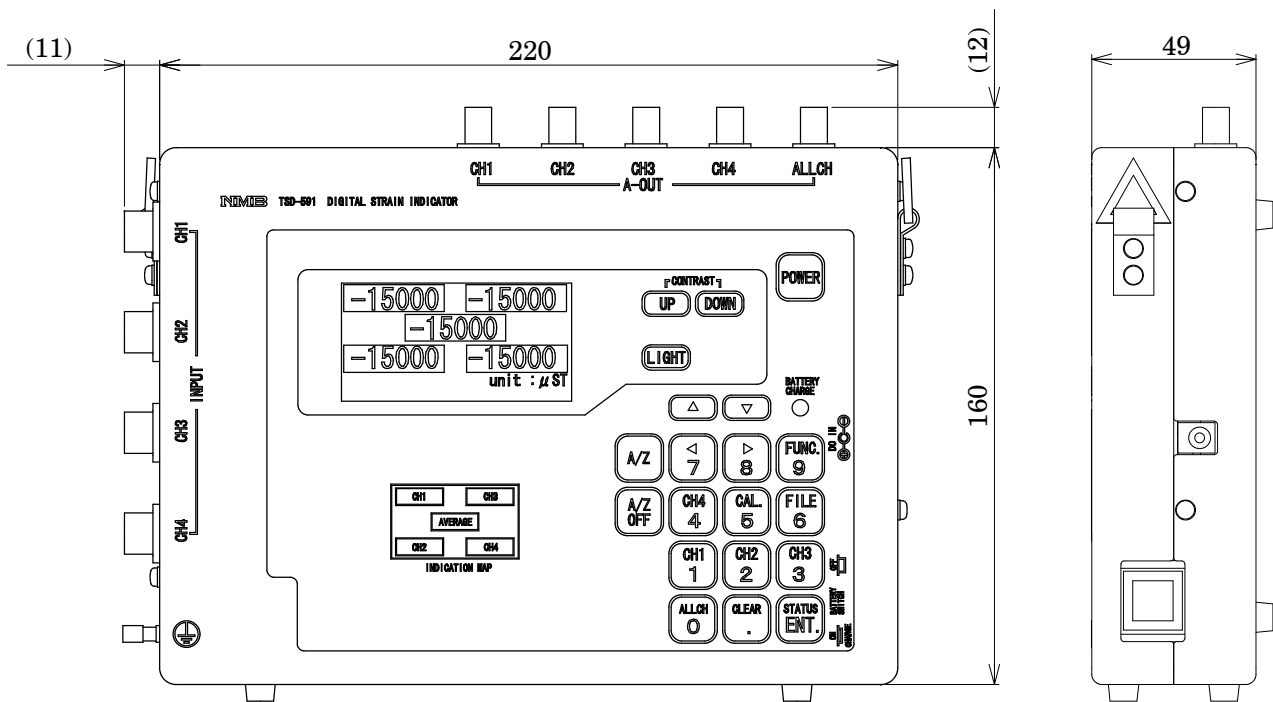
4. General specifications

- Operating temperature/humidity range
 - Temperature 0 °C to 50 °C
 - Humidity Less than or equal to 85 %R.H.(Non condensing.)
- Power supply
 - Power supply voltage AC90 V to 132 V (when using AC adapter), or Battery drive
 - Power supply frequency 50/60 Hz
 - Power consumption Approx.0.8 VA
 - Battery drive time Approx.4 hours(when connecting 4 sets of tie bar gage)
- Outline dimensions(W×H×D)
 - 220 mm×160 mm×49 mm (Excludes protruding parts.)
- Weight
 - Approx.1.8 kg

5. Accessories

- Instruction manual 1 piece
- AC adapter 1 piece
- Midget fuse(2 A) 1 piece

6. Outline dimensions



Unit : mm

Specifications and outline dimensions and so on which have printed may subject to change for the purpose of improvement.