Minebea

SPECIFICATIONS

Static Strain Indicator for Tie Bar Gage

TSD-591

Spec. No.EN382591-I

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. Specificaitons of analog

- Bridge power supply: DC 2V±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: ±0.2×10^{-6} strain/℃
  - Sensitivity: ±0.01 %F.S./℃
  - (After 15 min. of warming up time)
- Effect due to time variation
  - Zero point: ±0.2×10^{-6} strain/8 h
  - Sensitivity: ±0.01 %F.S./8 h
  - (Temperature variation width is within ±2 ℃)
- A/D sampling: 16 times/s

2-2. Specificaitons 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 kΩ 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: ±15 000×10^{-6} strain
- Resolution: 1×10^{-6} strain
- Accuracy: ±0.1 %F.S.±1 digit

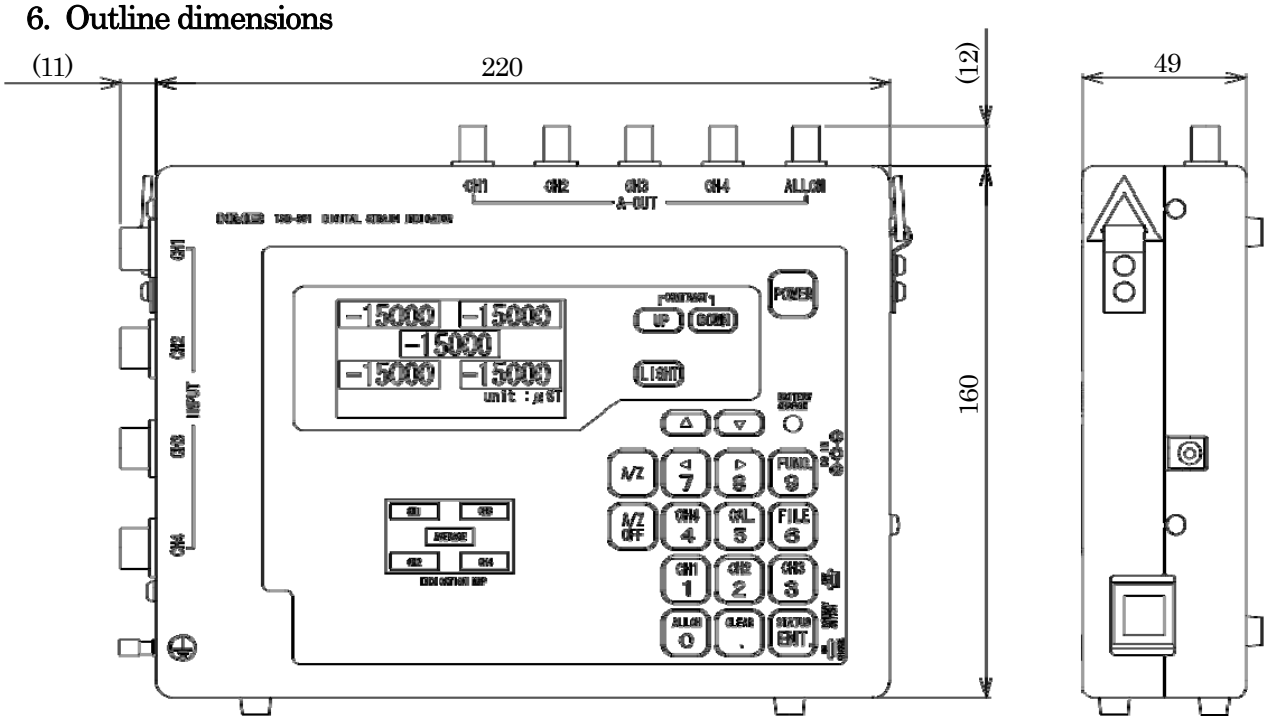
4. General specifications

- Operating temperature/humidity range
  - Temperature: 0 ℃ to 50 ℃
  - Humidity: Less than or equal to 85 %R.H.(Non condensing.)
- Power supply
  - Power supply voltage: AC90 V to 264 V (when using AC adapter), or Battery drive
  - Power supply frequency: 50/60 Hz
  - Power consumption: Approx.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
  (PW−024A−1Y160KU: Power Win Technology)
- 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 without notice.