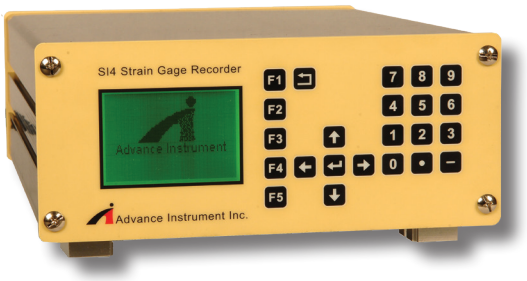
SI4 Strain Indicator and Recorder



Features:

- Four Input Channels
- AC Power
- Auto Balance
- Analog output
- Excitation 2.5 Vdc
- Auto Calibration
- 1/4, 1/2 and full bridge
- 120, 350, 1K Ω dummy gages
- Three Grids 60°-Delta Strain Gage Rosettes Data Reduction
- Strain Gage Type Transducer
- Data Storage
- Back Light LCD Display
- Communication Interface

Description:

The SI4 is a strain gage indicator, which offers excellent stable performance in the measurement of strain.

It supports the Strain Gage Rosettes Data Reduction . Include the Three Grids 60°-Delta Strain Gage Rosettes` operation.

It can process static measurements and data storage, but also can use in stress analysis and strain gage based transducers.

The SI4 has a high resolution Liquid Crystal Display, auto balance control, accurate and high sensitivity analog output.

The bridge excitation supply is precisely regulated constant voltage.

Quarter	HB adj s:-s
HB opp s:-s	HB shear s:-s
HB adj s:vs	FB 4 active
FB shear	FB v opp
FB v adj	Undef FB
Undef HB/QB	

SI4 Strain Indicator and Recorder

Specification:

- Display
  - 128 × 64 pixels LCD with backlight
- Input
  - 4 Channels
- Strain Gage Range
  - ±10,000 με, at G.F.=2
- Transducer Range
  - 2.0~50 mV/V for full-scale indication
- Accuracy
  - ± 0.1% Reading ± 3 με for G.F.=2
- Auto Balance
  - Range : ± 16000με
  - Resolution : 1με
- Gage Factory
  - G.F. Range 0.5~10
- Constance Voltage Excitation
  - 2.5 ± 0.1% Vdc Ground balance driver, 30 mA. 50ppm
  - Noise : ≤2.5μVp-p, 13.5μVp-p/°C (0.00054)
- Amperfilier
  - Temperature effect on zero: ± 1.0mV/°C rti Max
  - Temperature effect on span: ± 0.002%/°C Max
  - Warm - up drift: less than ± 3 counts at G.F. = 2 from turn-on ten minutes
  - Random drift at constant ambient temperature: less Than ± 3 με at G.F. = 2.0
  - Common-mode rejection: great than 90dB at 50~60 Hz
- Analog To Digital Conversion
  - Resolution 24 Bits
- DATA STORAGE
  - USB - Disk
  - Recording: 1 ~ 999 Sec.
  - Auto / manual
- Strain Gage Rosettes Data Reduction
  - 45° / 60°- three grids auto operation
  - Strain p
  - Strain q
  - θ
- Analog Output:
  - Linear output : 0~5V Max
  - ± Full Range
  - Any one for four Channel
- Shunt Calibration:
  Three internal shunt calibration resistors ± 0.1%.
  - 120Ω Gages: 5000με
  - 350Ω Gages: 5000με
  - 1000Ω Gages: 5000με
- Balance
  - Auto or Manual
- Input Circuit
  - Configuration 2 to 4 wires plus grand-shield to accept 1/4, 1/2, Full bridge strain gages or transducer
  - Internal half bridge 120Ω, 350Ω, 1000Ω completion gages
- Data Link
  - Serial Bus
- Power Requirement
  - 110~220 Vac ± 10%, 50 or 60 Hz
- Size
  - 200 × 95 × 270 mm
- Weight
  - 3.0 Kg
- Environmental
  - Temperature: operating -10°C ~ 60°C
  - Storage: -20°C ~ 70°C
  - Humidity: to 95%