PART NUMBER SPEC-AIM6

Specifications

AIM6 ANALOG INPUT MODULE 6

Input channels: 4, configurable for both strain guage and RTD measurements
Output channels: strain guage excitation voltage and RTD excitation current

Input characteristics:
- Gain. x50, x166.6 software selectable for each channel
- Input range: x50, ± 100mV max
  x166.6, ± 30mV max
- Accuracy:
  - Gain: x50, ± 0.6% adjustable to 1 lsb
    x166.6, ± 0.8% adjustable to 1 lsb
  - Gain non-linearity: ± 0.01% max
  - Offset: ± 150uV max, adjustable to zero (RTI)
- Temperature coefficient:
  - x50, x166.6: 0.0025%/°C
  - Input offset: ± 1uV/°C
- Input noise voltage: 1.5uV p-p, 0.01Hz to 100Hz, R_S < 1kohm
- Input bias current: 10nA
- Input resistance: 20Mohms
- Protection: 130V RMS max normal mode, f ≤60Hz
- Common mode voltage: ± 6V peak
- Common mode rejection: 94db, R_S = 100 ohms, f= ≤60Hz, x 166.6
- Normal mode rejection: 22db, f ≥ 50Hz
- Settling time: 0.4 sec to 0.01%

Output characteristics:
- Strain guage excitation voltage:
  - + 10V nominal, ± 10% adjustment span
  - Output current: 200mA max
  - Temperature coefficient. ± 0.08%/°C
- RTD excitation current:
  - 0.4mA ± 1%
  - Temperature coefficient. ± 0.001%/°C

- RTD mode:
  - Input range: 0-350 ohms, x50 gain
  - Measurable temperature span with 100 ohm RTD: -200°C to +700°C

LTR	REVISIONS	APP.	DATE
A	RELEASED 9481		11-1-83

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CKD. DATE
APP. DATE

KEITHLEY Keithley Instruments Inc. Cleveland, Ohio 44139

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