## 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,  $\pm$  100mV max

x166.6, + 30mV max

Accuracy:

Gain: x50,  $\pm$  0.6% adjustable to 1 1sb

x166.6, + 0.8% adjustable to 1 lsb

Gain non-linearity: + 0.01% max

Offset:  $\pm 150$ uV max, adjustable to zero (RTI)

Temperature coefficient:

x50, x166.6: 0.0025%/°C Input offset: + luV/°C

Input noise voltage: 1.5uV p-p, 0.0lHz to 100Hz,  $\rm R_{\rm S}$  < lkohm

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 + 18

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

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