

TC-IAH161, TK-IAH161**Table 6-11** High Level Analog, 16-Input, Voltage and Current (10 V & 4-20 mA) Module

Parameter	Specification
Number of Points	16 channels
Input Voltage Range (Voltage) Input Current Range (Current)	± 10.25 volts, 0 to 10.25 volts, 0 to 5.125 volts 0 to 20.5 mA (internal 250 Ω resistor)
Voltage Resolution ± 10.5 volt range 0 to 10.5 volt range 0 to 5 volt range Current Resolution	16 bits across each range shown below 320 μ V 160 μ V 80 μ V 320 nA
Module Publish Rate	250 msec
Input Impedance (Voltage) (Current)	Greater than 1.0 meg Ω 249 ohms Ω nominal
Open Circuit Detection Typical OC Detection Time	Voltage Even channels - Positive Full scale reading Odd channels – Negative Full scale reading Current – Negative Full scale reading less than 5 seconds
Normal Mode Noise Rejection Common Mode Rejection	Greater than 33 dB @ 50 Hz Greater than 60 dB @ 60 Hz 100 dB @ 50/60 Hz
Channel Bandwidth	20 Hz(-3dB)
Calibrated Accuracy @ 25°C	Better than 0.05% of range (Voltage) Better than 0.15% of range including sense resistor (Current)
RFI Immunity	Error of less than 2.0% of range at 10 V/m, 27 to 1000 MHz
Overvoltage Capability	Continuous at room temperature (both) 30 VDC (Voltage) 8 VDC (Current)
Input Offset Drift with Temperature	<90 μ V/ $^{\circ}$ C(Voltage) <360 nA/ $^{\circ}$ C typical (Current)
Gain Drift with Temperature	15 ppm/ $^{\circ}$ C (Voltage); 20 ppm/ $^{\circ}$ C (Current)
Module Error Over Full Temp. Range	0.1% of range(Voltage) 0.3% of range(current)
Power Dissipation	4.1 W max
Backplane Current	See Module Power Consumption Data, page 46.
Isolation Voltage User to system	100% Tested at 2550VDC for 1s
Connection Terminal Blocks	TC-TBCH, 36-position terminal block