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Category	■FAQ □SOP	Related OS	N/A
Abstract	What is Tolerance Range of ADAM Analog Input (AI) Module?		
Keyword	ADAM, Tolerance Range, Analog Input Accuracy		
Related Product	ADAM-4000/4100/6000/6200 Analog Input Modules		

■ **Problem Description:**

This document describes how to check tolerance Range of ADAM Analog Input(AI) Module.

■ **Brief Solution - Step by Step:**

Tolerance range is basically referring to SPEC of AI accuracy which can be checked from product catalog or datasheet on Advantech support web site.

http://support.advantech.com.tw/support/New_Default.aspx

Normally:

- Accuracy under voltage mode is $\pm 0.1\%$ or better
- Accuracy under current mode is $\pm 0.2\%$ or better

ADAM-4011:

Analog Input

- Channels 1
- Input Impedance Voltage: 2 M Ω
Current: 125 Ω
- Input Type T/C, mV, V or mA
- Input Range ± 15 mV, ± 50 mV, ± 100 mV,
 ± 500 mV, ± 1 V,
 ± 2.5 V, ± 20 mA

- Accuracy Voltage mode: $\pm 0.1\%$ or better
Current mode: $\pm 0.2\%$ or better

▪ **T/C Type and Temperature Range**

J	0 ~ 760° C	R	500 ~ 1,750° C
K	0 ~ 1,370° C	S	500 ~ 1,750° C
T	-100 ~ 400° C	B	500 ~ 1,800° C
E	0 ~ 1,000° C		

- Span Drift ± 25 ppm/° C
- Zero Drift ± 6 μ V/° C

ADAM-4012:

Analog Input

- Channels 1
- Input Impedance Voltage: 20 M Ω
Current: 125 Ω
- Input Type mV, V or mA
- Input Range ± 150 mV, ± 500 mV, ± 1 V,
 ± 5 V, ± 10 V and ± 20 mA

- Accuracy Voltage mode: $\pm 0.1\%$ or better
Current mode: $\pm 0.2\%$ or better

- Span Drift ± 25 ppm/° C
- Zero Drift ± 6 μ V/° C