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Date	2016/12/22	SR#	1-2748322111
Category	■FAQ □SOP	Related OS	N/A
Abstract	IAG_FAQ How to modify the sampling rate in ADAM 4118?		
Keyword	Sampling Rate, ADAM-4118, High speed, 10ms		
Related			
Product	ADAIVI-4118		

### Problem Description:

ADAM 4118 is a robust Thermocouple input module. There are two sampling rate supported in ADAM 4118, one is **10 samples/sec** and the other is **100 samples/sec**. This document explains a common question of how to modify the sampling rate in ADAM 4118.

## Brief Solution - Step by Step:

As described in datasheet, user can selected the sampling rate by Adam/APAX. Net Utility.

Resolution	16-hit	
Sampling Rate	10/100 samples/sec	
	(selected by Utility)	
CMIK @ 50/60 HZ	92 dB	
NMR @ 50/60 Hz	60 dB	
<b>Overvoltage Protection</b>	on ±60 V <sub>DC</sub>	
High Common Mode	200 Vpc	
Span Drift	±25 ppm/°C (Typical)	
Zero Drift	±6µV/°C	
Built-in TVS/ESD Protection		
Burn-out Detection		

Below is the brief step of how to modify the sampling rate by using Utility.

### 1. Set ADAM4118 to initial mode



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2. In module setting page, you will see the integration time shows 50Hz/60Hz, which means the sampling rate is the default value 10 samples/sec.

🗙 Advantech Adam/Apax .NET Utility (Win32) V	Version 2.05.10	
File Tools Setup Help		
File Tools Setup Help	ADAM-4118 Module setting Data area Advanced setup   Address: *01 Hex 1 = Dec Baudrate: 9600 bps Checksum: Enabled Firmware version: A1.07 F/W Update	Apply change Locat Module Save/Load Configuration
	Integration time:       50/60       50Hz/60Hz         Comm. WDT:       0       Sec (0.0~999.9)         Protocol:       Modbus       Image: Common sector of the	Load

3. In integration time column, Click high speed option and apply change as below screenshot

File Tools Setup Help			
Serial COM1 COM2 COM3 Witeless Sensor Networks	ADAM-4118 Module setting Data area Address: Baudrate: Checksum: Firmware version: Integration time: Comm. WDT: Protocol: Data format: Mod bus Only: Thermocouple Mode:	Advanced setup *01 Hex 1  Dec 9600 bps Enabled A1.07 F/W Update 50/60 FightSpeed Sec (0.0-999.9) Modbus Engineering Unit None Parity, 8 Bits, 1 Stop	2 Apply change Locat Module Save/Load Configuration Save Load

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4. After apply change finished, you will see 10ms, High speed in Integration time column.

