AD-1687 Setting Tool Instruction Manual

By using the "AD-1687 Setting Tool" for the AD-1687,

1: Internal settings can be changed on your computer screen.

2: Internal settings can be reset to factory settings.

3: A function where upper and lower limits can be set and HI LO is displayable can be used.

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2. System Requirements

OS Windows XP SP3 or later Display XGA (1024 x 768) or higher

3. Before Installing

Before using "AD-1687 Setting Tool", please be sure to back up any important data on your computer.

4. Installing the "AD-1687 Setting Tool"

Unzip the AD-1687 Setting Tool.zip file in an appropriate folder.

5. Uninstalling "AD-1687 Setting Tool"

Delete the folder where AD-1687 Setting Tool.exe is installed.

6. Starting and Using the Program

1: Connect the AD-1687 to your PC using a USB cable

2: Select "CSV FILE" on the AD-1687 and hit the <ENTER> key.

USB > CSV FILE EXT. POWER REAL TIME

3: Double click "AD-1687 Setting Tool.exe" in the unzipped folder.

4: Select the drive which the AD-1687 is connected to and hit OK

At this point, the internal settings saved in the AD-1687 will be read and displayed on-screen.

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AD AD	-1687 Setting	g Tool								
Interval Time	T Merilland 🖂	Bucter	ON M	Power Off	1 Mn 💌		UMIT-D1 HI	0 0N () 0FF		
Disp Bend	TEMPI M	Decinal Point	Select Drive				uer-bluo	O 0N ⊕ 0FF	4	
Disp-Beer2	HUM M	Baud-rate	AD-1687 Drive	E:¥	*	\mathbf{R}			-	
Temp Unit	Celsius (°C)	Length/Facily	ОК	Ca	ncel		LIMIT-(2).HE		1	
RecordingType	One-Time M	Terminate	00R0.0.F) 💌	LCD Lueinarce	4) <u>×</u>		UHI7-121	belect the col	nnected	
							h	ard drive		ſ
Pactory Default	SET									

Note: Do not select a drive besides the one the AD-1687 is connected to.

5: Functions of the various areas



Return all settings to factory defaults

For more info on the limit function,

Refer to 7. Limit Function

Setting Item	Values and functionality
INTERVAL TIME	Recording intervals for the AD-1687
	1, 2, 5, 10, 15, 20, 30 seconds
	1*, 2, 5, 10, 15, 20, 30, 60 minutes
PRIMARY DATA 1	• Which items are displayed in the AD-1687 option
	screen?
	 Items using the limit function
	Temp 1*, Humidity, Barometric pressure, Temp 2 (only
	when connected), Vibration, Balance
PRIMARY DATA 2	• Which items are displayed in the AD1687 option screen?
	 Items using the limit function
	Temp. 1, Humidity*, Barometric Pressure, Temp. 2 (only
	when connected), Vibration, Balance

RECORDING TYPE	When data is full, does the device overwrite and save?One-time*··· Does not overwrite when memory is fullEndless ··· Does overwrite when memory is full
BUZZER	Does the buzzer sound during weighing data input/ usage
	of the limit function
	Sound*
	No sound
	Decimals displayed and saved to the AD1687
DECIMAL POINT	Dot (.)*
	Comma (,)
TERMINATOR	Settings for connection to the balance
	<cr><lf>*</lf></cr>
	<cr></cr>
BITS PARITY	Settings for connection to the balance
	7bits/EVEN*, 7bits/ODD, 8bits/NONE
BAUD RATE	Settings for connection to the balance
	600, 1200, 2400*, 4800, 9600, 19200bps
POWER SAVE	Time elapsing without input before turning off
	power/display
	No power-save, 30 seconds, 1*, 2, 5, 10 minutes
DATE FORMAT	Order of year, month, and day
	Year/month/day*, month/day/year, day/month/year
DATE/TIME SETTING	<u>Time setting</u>
	Auto ••• Records the time set on the PC
	Manual · · · Choose your own setting
ID NUMBER	ID number settings
	8-digit value. Example: AND-1687
CONTRAST	<u>Screen contrast</u>
	25 to 40* to 50
LIMIT UPPER/LOWER	Limit function settings
	* Refer to " 7. Limit function "

*: Factory settings

6: When returning settings to factory defaults

Press the Factory Default Settings button. All settings will be returned to factory defaults. When this happens, settings are not saved on the AD-1687 yet.

7: Confirm settings

After changing the necessary settings, press the Set button.

Disp Item1 TEMP1 Decimal Point Dot0 Date Format YY//MM/DD LIMET-[1] LO Disp Item2 Disp Item2 HUM Baud-rate 7bit/Even Date Time 0 Auto O Manual 2012/07/24 - 160044 LIMET-[1] LO 0	
Disp Item2 HUM. Baud-rate 7bit/Even Date Time 0 Auto Manual 0 Auto 0 Auto	ON 💿 OFF
	000.0
Limit-(2) Hi 0	ON ③ OFF
	ON OFF

8: To make the changes take effect, you must turn off the power for the AD-1687 and restart it.



1: Left-click "Safely remove hardware" on the taskbar and sever the connection.

Safely remove LISB Macc Storage Device - Drive(E)		1	
Darely remove ODD Mass Diorage Device - Drive(r.)		🖃) 🗳 🍈	4/34 DM
	\sim	23.72 🍋	TISTEN

2: If you see the "Hardware removed" message, pull the USB cable from the AD-1687.

3: Press and hold the AD-1687's [ON/OFF] key, and turn it off.

9: Quit the Setting Tool

Pressing the quit button in the upper right will close the program.

7. About the Limit Function

• There is a "limit function" that will display HI, LO on the AD-1687 and sound a buzzer when environmental values pass set limits

• It's possible to quickly be informed of irregularities through a buzzer and/or display when certain limits are exceeded, such as in climate controlled room.

1: Please go to Step 5: "Functions of the various areas" of "6. Starting and Using the Program"

2: Select the item that will use the limit function.

ND AD げー設定項目	-1687 Settin	g Tool					
インターバル時間	1分 💌	7世 螞動	<u>ाहित्र</u> 💌	省電力設定	1分 💌	リミット 項目1 上限	ON OFF
選択表示項目1	温度1	小数点文字	[▶] ୭ト(.) ▼	日付表記	年/月/日 💌	リミット 項目1 下限	O ON ⊙ OFF
選択表示項目2	湿度 💌	ボーレート	7bit / EVEN 💌	日付 時刻	 ● 自動 ○ 手動 2012/03/23 - 15:43:40 ▼ 		○ ON ⊙ OFF
温度単位	°C 💌	データ長/パリティ	2400	ID	0000000	リミット 項目2 上限	0000.0
記録モード	ত্যঙ্গা 💌	終端文字	(CR)(LF)	LCD 輝度	40	リミット 項目2 下限	O ON OFF

Note: The limit function cannot be used on "vibrations" or "balance". When using the limit function, please do not select these. 3: Select whether to enable the limit function

To use the limit function on the settings displayed in "Primary data 1, 2", click ON

Interval Time	1 Min 💌	Buzzer	ON 💌	Power Off	1 Min 💌		ON OFF
Disp Item1		Decimal Point	Dot()	Date Format	YY/MM/DD		ON O OFF
Disp Item2	HUM.	Baud-rate	7bit/Even	Date Time	Auto O Manual 2012/07/24 - 16:00:44		
Temp Unit	Celsius (°C)	Length/Parity	2400	ID	0000000	LIMIT-[2] HI OC	000.0
RecordingType	One-Time 🗸	Terminate		LCD Luminance	40 🗸		ON OFF

$4 \!\!: \ensuremath{\mathsf{Set}}$ the upper and lower limits for the limit function

Input the upper and lower limits.

Interval Time	1 Min 💌	Buzzer	ON 💌	Power Off	1 Min 💌	LIMIT-[1] HI 0090.0
Disp Item1	TEMP1	Decimal Point	000	Date Format	YY/MM/DD	
Disp Item2	HUM.	Baud-rate	7bit/Even	Date Time	 ⊙ Auto ○ Manual 2012/07/24 - 16:00:44 	
Temp Unit	Celsius (°C)	Length/Parity	2400	ID	00000000	LIMIT-[2] HI 0050.0
RecordingType	One-Time 🖌	Terminate	(OR)(LF)	LCD Luminance	40	LIMIT-[2] LO 0047.0

5: After changing settings for the limit function

Refer to the steps following "7. Confirm settings" from **"6. Starting and Using the Program"** and enable the setting changes made to the limit function.

6: The AD-1687's display

When the upper/lower limit values set using the Setting Tool are passed, HI/LO will be displayed, or the unit area will reverse from black to white and a buzzer will be sounded.



7: Stopping the limit function

To stop the limit function, use the Setting Tool again, and click OFF Refer to the steps following "7. Confirm settings" from **"6. Starting and Using the Program"** and enable the setting changes made to the limit function.

Interval Time	1 Min 💌	Buzzer	ON 💌	Power Off	1 Min 💌	
Disp Item1	TEMP1	Decimal Point	Dot()	Date Format	YY/MM/DD	
Disp Item2	HUM.	Baud-rate	7bit/Even	Date Time	Auto O Manual 2012/07/24 - 16:00:44	
Temp Unit	Celsius (°C) 💌	Length/Parity	2400	ID	00000000	LIMIT-[2] HI 00000
RecordingType	One-Time V	Terminate		LCD Luminance	40	LIMIT-[2] LO

8. Usage Example for the Limit Function

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An actual example showing how to use the limit function is below.

Conditions

Temp	Upper limit: 25.0°C	Humidity	Upper limit: 50.0%
	Lower limit: 23.0°C		Lower limit: 40.0%

1: Follow the steps all the way up to "5. Functions of the various areas" from

"6. Starting and Using the Program"

2: In Primary Data 1 set "Temperature 1", and in Primary Data 2 set "Humidity"

Interval Time	1 Min	Buzzer	ON 💌	Power Off	1 Min 💌	LIMIT-[1] HI	ON OFF
Disp Item1	TEMP1	Decimal Point	DotO	Date Format	YY/MM/DD	LIMIT-[1] LO	O ON O OFF
Disp Item2	HUM.	Baud-rate	7bit/Even 💌	Date Time	Auto Manual 2012/07/24 - 16:00:44		O ON O OFF
Temp Unit	Celsius (°C)	Length/Parity	2400	ID	0000000	LIMIT-[2] HI	0000.0
leoordingTupe	One-Time	Terminate		ICD Luminance	40	LIMIT-[2] LO	ON OFF

3: To enable the limit function, click "ON"

interval Time	1 Min 💌	Buzzer	ON	Power Off	1 Min	LIMIT-[1] HI	0000.0
Disp Item1	TEMP1	Decimal Point	Dot()	Date Format	YY/MM/DD	UNIT DILLO	⊙ ON ○ OFF
Disp Item2	HUM.	Baud-rate	7bit/Even	Date Time	Auto O Manual 2012/07/24 - 16:00:44		
Temp Unit	Celsius (°C)	Length/Parity	2400	ID	00000000	limit-[2] hi	0000.0
ecordingType	One-Time V	Terminate		LCD Luminance	40	LIMIT-[2] LO	ON OFF 0000.0

4: Input upper/lower limits

Temp	Upper limit	: 25.0°C		Humidity	Upper limit:	50.0%]
	Lower limit	: 23.0°C	_		Lower limit:	40.0%	
🔤 AD-1687 Settin	ng Tool Ver.1.02 : E:¥						
User Setting Paramet	0-1687 Setting	g Tool					
Interval Time	1 Min	Buzzer	ON	Power	Off 1 Min	LIMIT-[1] HI	ON O OFF 0025.0
Disp Item1	ТЕМР1	Decimal Point	Dot()	✓ Date F	ormat	LIMIT-[1] LO	
Disp Item2	HUM.	Baud-rate	7bit/Even	Date 1	Time 2012/07/24 - 16:00:44		
Temp Unit	Celsius (C)	Length/Parity	2400	• II	0000000		
RecordingType	One-Time	Terminate	<cr><lf></lf></cr>	LCD Lun	ninance 40 💌	LIMIT-[2] LO	0040į0
Factory Default	SET						

5: Click the Set button

terval Time	1 Min 💌	Buzzer	ON	Power Off	1 Min 💌	LIMIT-[1] HI	ON OFF 0025.0
Disp Item1	TEMP1	Decimal Point	DotO	Date Format	YY/MM/DD	LIMIT-[1] LO LIMIT-[2] HI	
isp Item2	HUM.	Baud-rate	7bit/Even	Date Time	Auto Manual 2012/07/24 - 16:00:44		0023.0
emp Unit	Celsius (°C)	Length/Parity	2400	ID	00000000		0050.0
and in a Taxa	Out Taxa	Timbut			40	LIMIT-[2] LO	⊙ ON ○ OFF

6: Apply the setting changes

Refer to the steps following "7: Confirm settings" from "6. Starting and Using the **Program**" and enable the limit function changes to the AD-1687.

7: Confirm the AD-1687 display.

Temp	Upper limit: 25.0°C	Humidity	Upper limit: 50.0%
	Lower limit: 23.0°C		Lower limit: 40.0%
			4

When the set limits are exceeded, $\boxed{\text{HI}}$, $\boxed{\text{LO}}$ will be displayed, and the buzzer will go off.



8: To stop the limit function, click OFF

nterval Time	1 Min 💌	Buzzer	ON 💌	Power Off	1 Min 💌	LIMIT-[1] HI	O ON O OFF
Disp Item1	ТЕМР1	Decimal Point	DotO	Date Format	YY/MM/DD	UNIT BLUD	O ON ⊙ OFF
Disp Item2	HUM.	Baud-rate	7bit/Even	Date Time	Auto Manual 2012/07/24 - 16:00:44		0023.0
Temp Unit	Celsius (°C)	Length/Parity	2400	ID	0000000	LIMIT-[2] HI	0050.0
ecordingType	One-Time	Terminate		LCD Luminance	40 🗸	LIMIT-[2] LO	O ON ⊙OFF