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1. Download and install software

- Requirements :

Windows OS : Win 7 , Win 8.1, Win 10

Microsoft Visual C++ 2012 Redistributable

Microsoft .Net Framework 4.5

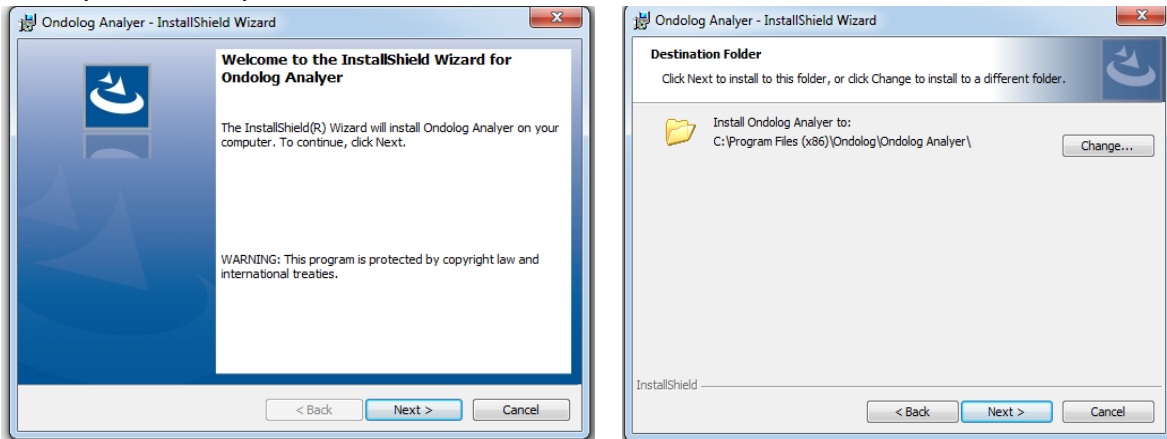
- Download software at:

<http://www.ondolog.com/downloads.html>

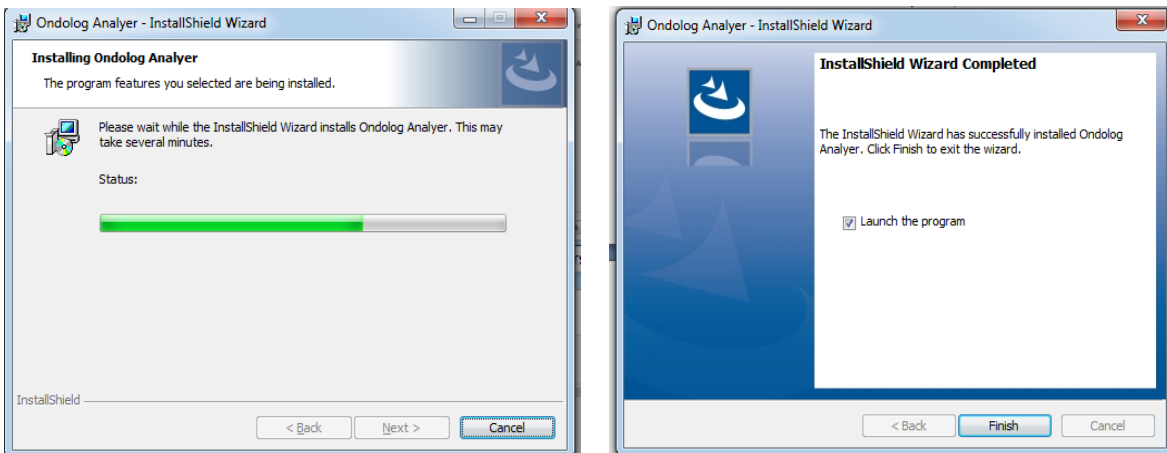
- Two files setup.exe and OndoLog.msi will be downloaded

- Install ONDOLOG ANALYZER by following these steps:

Open file setup.exe



Choose Everyone to install for all users or Just me to install for yourself. Then click Next,



Wait till the installation is completed,

Click Close to complete Setup.

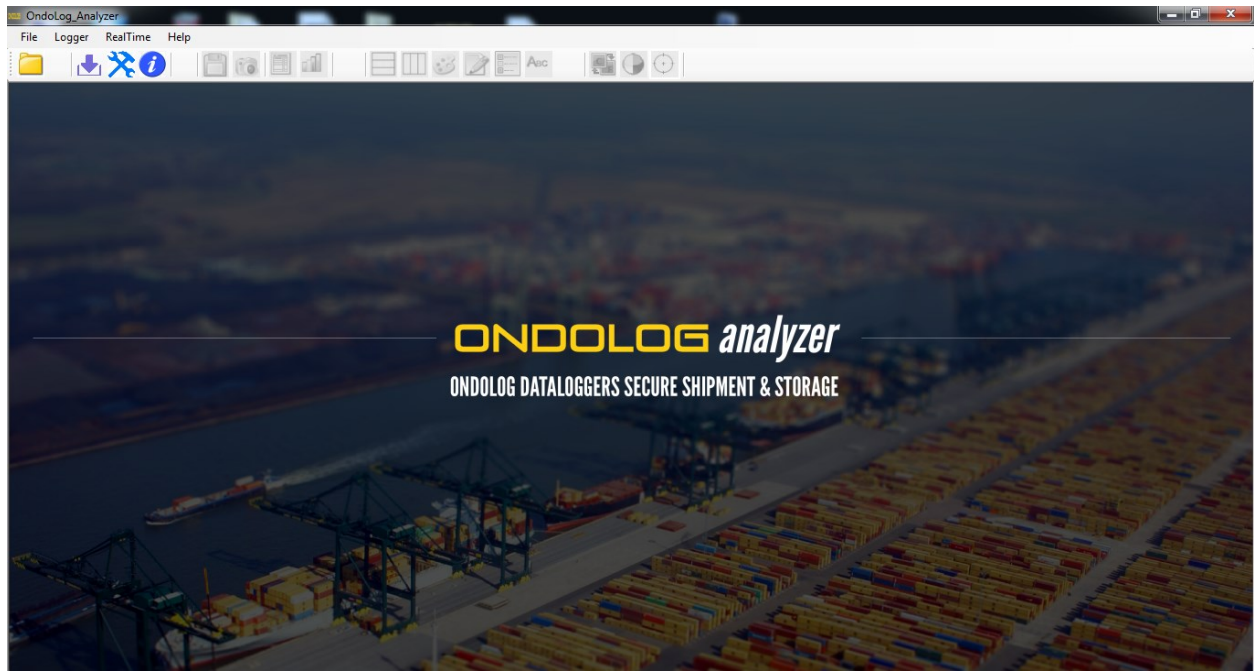
After installing, ONDOLOG ANALYZER shortcut is shown in Desktop.

The background will be :

ONDOLOG ANALYZER

USER GUIDE

Rev.00



2. Connect to Data logger

Connect data logger to PC via micro USB port .

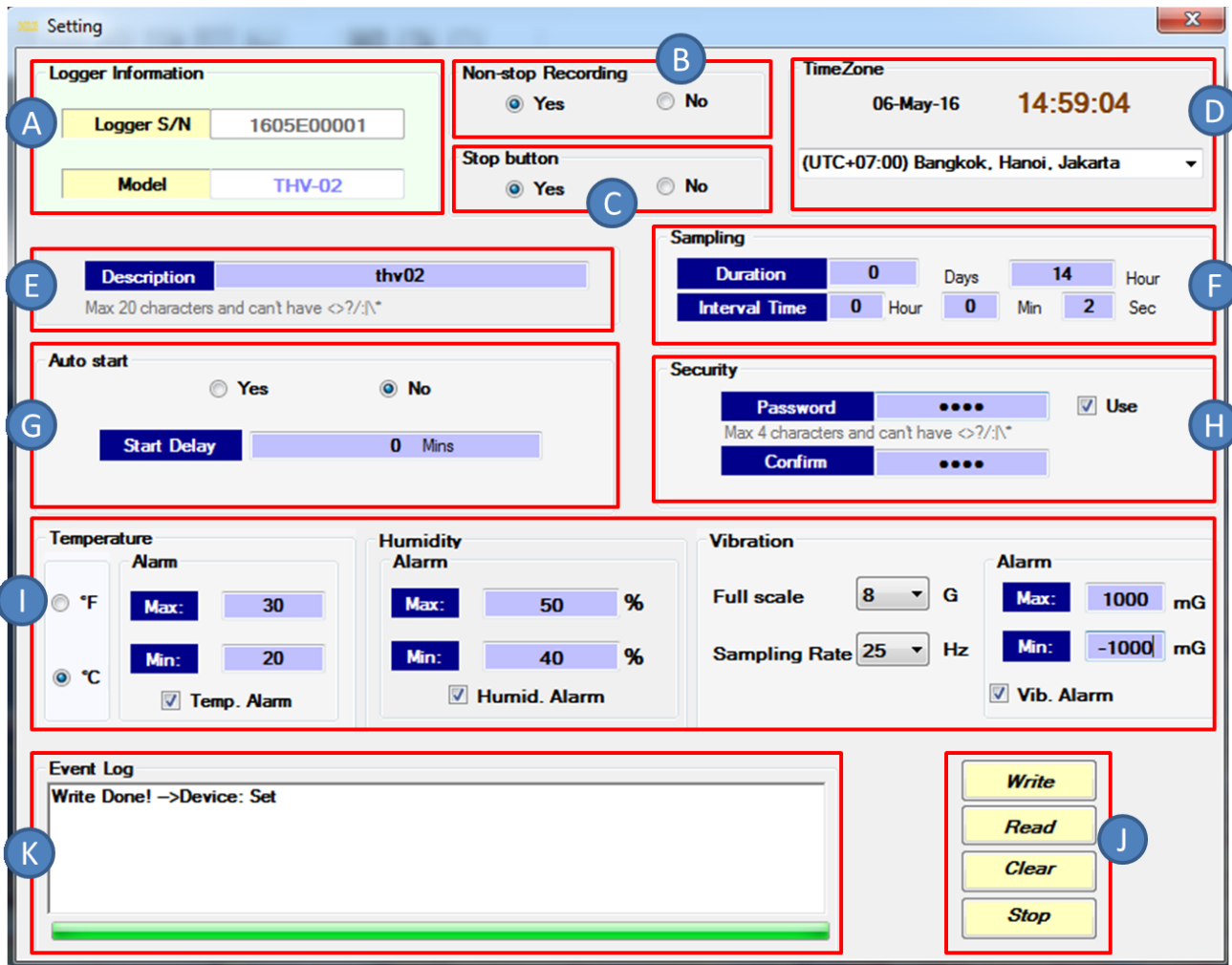
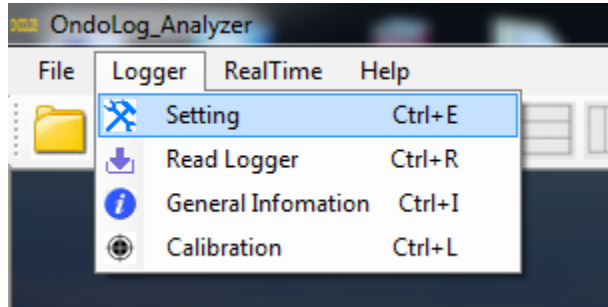
On the logger, there are a Start/Stop key to Start or Stop the logger. Press the key 5 seconds to Start and press 5 seconds again to Stop logger.

There are two LEDs to indicate, the green LED indicates the logger is recording, the red LED if there is alarm.

Note 1 : if the Stop key is set No in Settings, the key will be disabled and user can't stop the logger by the key. In this case the logger could be stopped only by software.

Note 2 : if Auto start is used, Start key will be disabled. If user presses the key 5s, the logger will be stopped.

3. Settings



A **Logger Information**

Logger S/N and Model are read from non erasable memory when connecting logger to computer.

Logger Information

Logger S/N	1605E00001
Model	THV-02

B **Non – Stop Recording**

Non-stop Recording

Yes No

If this feature is enabled, the logger will continue writing the data when the memory is full. The oldest data will be replaced by the latest data.

C **Start/Stop Button**

Stop button

Yes No

When YES is chosen, the logger can be stopped by pressing START/STOP button. If NO is chosen, the logger only stops when the recording is finished or stopped by software. If no-stop recording, the logger could be stopped only by software.

D **TimeZone**

TimeZone

3/13/2017 21:18:34

(UTC-12:00) International Date Line West ▼

Display day and time. Time Zone could be selected according to user's geographical region. The default setting is done according the time & date settings of the computer.

E **Description**

Description is written down by user. It's limited to 20 characters and special characters not available for use.

Description

thv02

Max 20 characters and can't have <?/:*

F Auto Start

There are two options for this feature.

1. If YES is enabled, then the logger will start and write the data to memory only at the setting time. Pressing the start/stop button is not available. Display is as follows :

The screenshot shows the 'Auto start' configuration window. At the top, there are two radio buttons: 'Yes' (selected) and 'No'. Below this, there is a 'Date/Time' label on the left. To its right, there are two input fields: the top one contains '08:45:34' and the bottom one contains '25-Apr-16'. Both fields have small icons on their right sides for editing.

Example, if you set the time at 08:45:34, the day on 25-Apr-16 the logger will auto start at 08:45:34, 25-Apr-16.

Note : The Date/Time you set must be enough late for the logger to complete settings.

2. If NO is enabled, the logger is started by pressing the Start/Stop button. In this case, data recording will start only after the START DELAY set by user. The display now is

The screenshot shows the 'Auto start' configuration window with 'No' selected. Below the radio buttons, there is a 'Start Delay' label on the left. To its right, there is a blue input field containing '0 Mins'.

Start Delay is from 0 to 60 minutes to set the time delay to start to write data to the non erasable memory of the logger.

Example, if Start Delay is 30, the logger will start to write data 30 minutes after pressing the button.

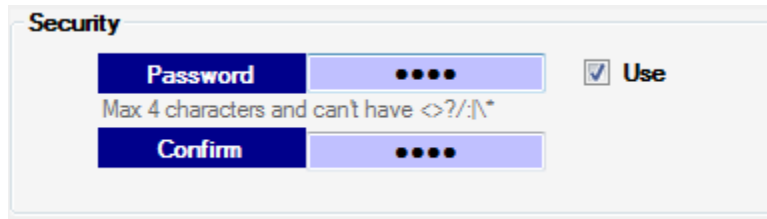
F Sampling frequency

The interval time is from 2 s up to 32 min. that corresponds to the recording duration of 18 hours to 365 days.

The screenshot shows the 'Sampling' configuration window. It has two rows of settings. The first row has a 'Duration' label, a blue input field with '0', the text 'Days', a blue input field with '14', and the text 'Hour'. The second row has an 'Interval Time' label, a blue input field with '0', the text 'Hour', a blue input field with '0', the text 'Min', a blue input field with '2', and the text 'Sec'.

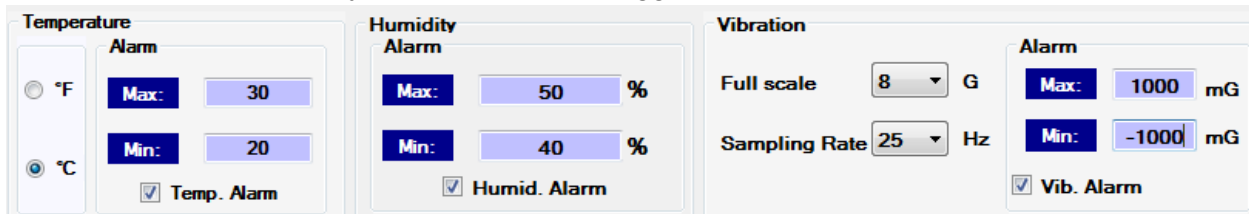
H Security

Tick the box to select password that is used to protect the logger from unwanted user. Then write down the password and confirm. The password contains 4 characters.

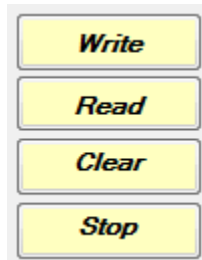


I Sensors

Below window shows the type of sensor in the logger.



J Function tab



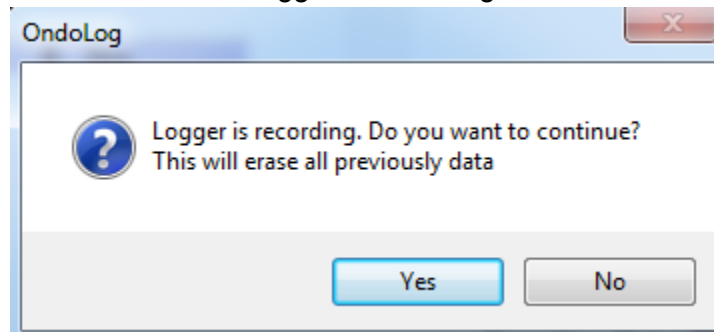
Write tab : Write the settings to the non erasable memory of the logger.

Read tab : Read the current settings of the logger.

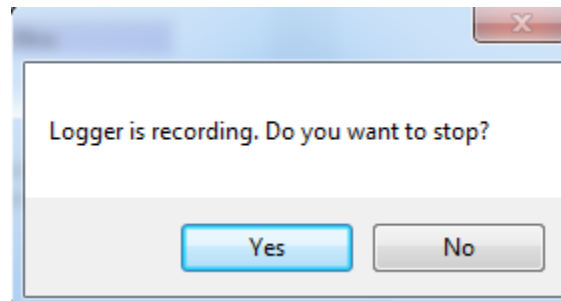
Clear tab : Clear the settings of the logger

Stop tab : Stop the logger if it is still running.

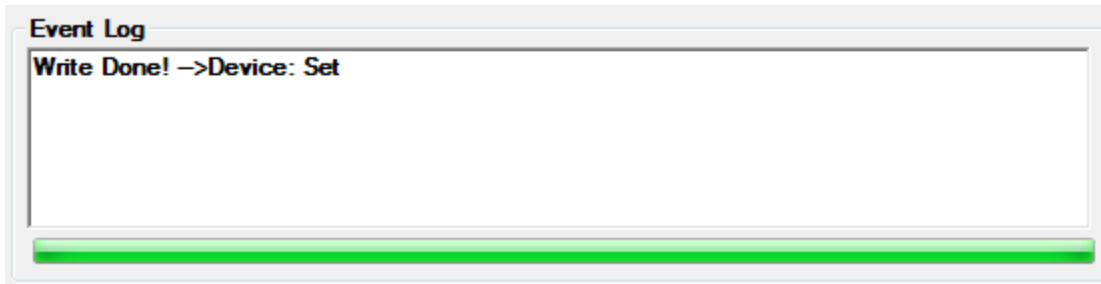
If pressing the Write or Clear tab when logger is recording, the below message is displayed



If pressing the Stop tab when logger is recording, the below message is displayed



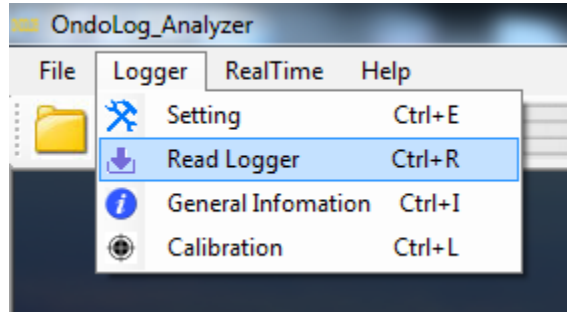
K Event Log



Here is displayed the status of settings and device.

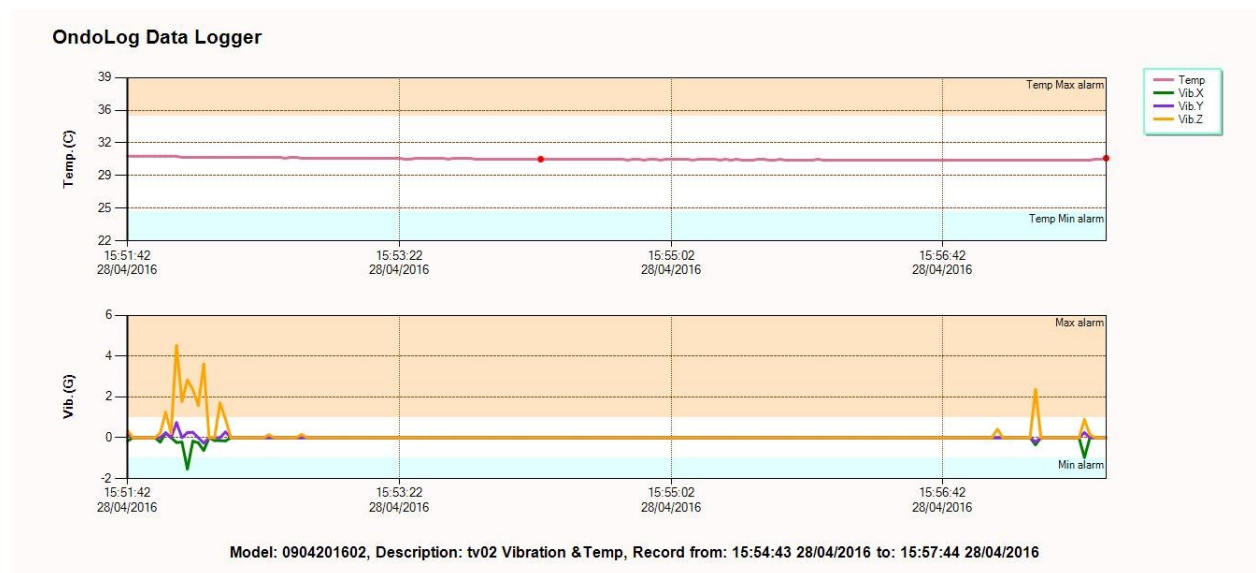
There are 5 status of device : Running (logger is recording),
Stopped (logger is stopped),
Set (logger is set and in standby mode),
Delaying (logger is waiting for starting),
No setting (logger has no setting).

4. Read Logger











Chart

The below chart is displayed after reading the logger.




Icon	Description
	Open a file
	Save
	Print screen
	Report Summary
	View Data
	Horizontal Show/ hide Horizontal grid

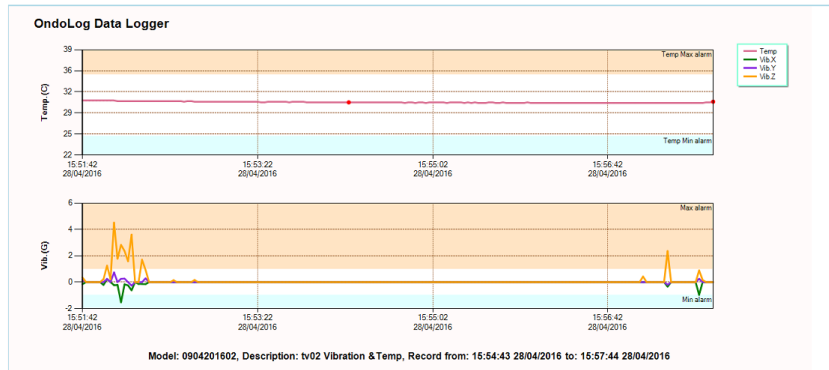
	Vertical Show / hide Vertical grid
	Change Color
	Edit Comment Limited in 200 characters, allow special characters
	Show/Hide legend
	Edit Title Limited in 50 characters, including special characters
	Change Unit
	Elapsed Time
	Show Value Point to chart to see value

Report summary

In report, the chart and summary information of logger are shown. To access Report summary,

click icon 

REPORT



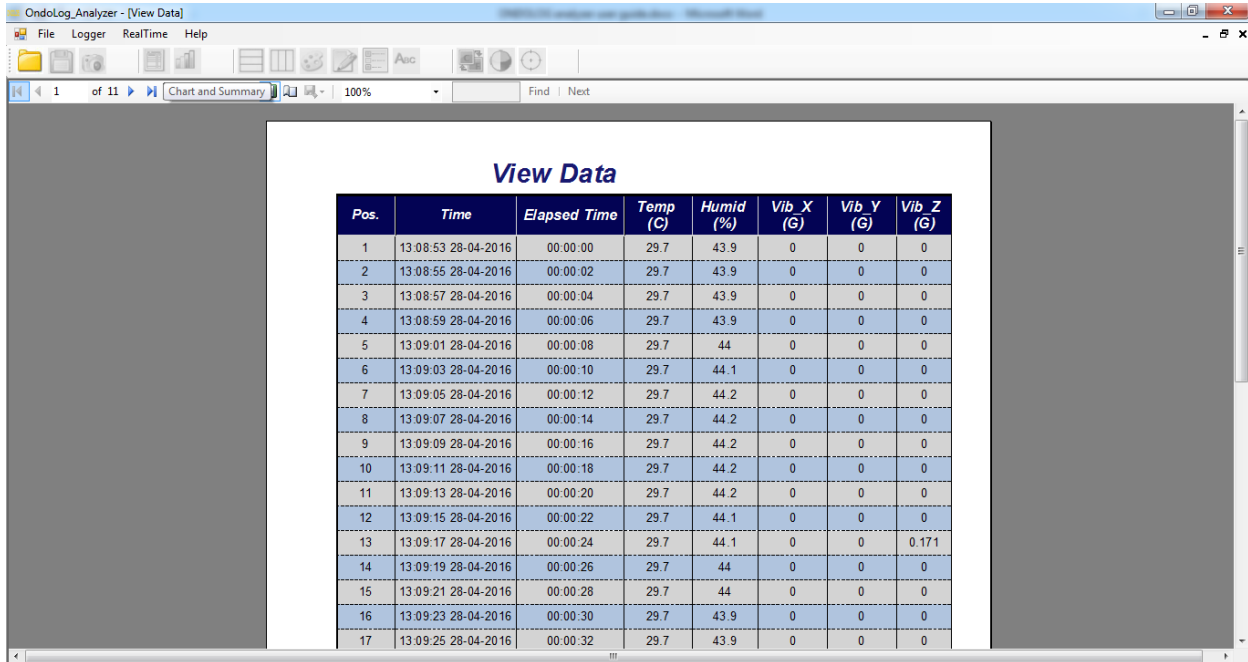
Logger Information			
Logger S/N:	0904201602	Model:	TV-02
Description:	tv02 Vibration &Temp	Firmware version:	1
Comments			

Settings	
Time Zone:	(UTC+07:00) Bangkok, Hanoi, Jakarta
Interval time:	2 Seconds
Delay time:	0 Minutes
Duration:	0 Days 18 Hours
Continuous Memory:	No
AutoStart:	No
Start Time:	4/28/2016 3:51:01 PM
Stop Time:	4/28/2016 3:58:39 PM
Elapsed Time:	00 Day(s) 00:07:38
Last download three times	15:55:09 28/04/2016, 15:58:37 28/04/2016
Full Scales:	8 G
Data Rate:	100 Hz

Data Information	Temp.(C)	Vib_X.(G)	Vib_Y.(G)	Vib_Z.(G)
Reading range	30.4-30.8	-1.531-0.234	-0.265-0.734	0-4.515
Max Alarm	35	1	1	1
Min Alarm	25	-1	-1	-1
Average	30.52	-0.03	0.01	0.14
Median	30.5	0	0	0
Standard deviation	0.12	0.15	0.07	0.58
Mean kinetic temperature	30,52			
Total Time below min alarm	0 Day 00:00:00	0 Day 00:00:02	0 Day 00:00:00	0 Day 00:00:00
Total Time above max alarm	0 Day 00:00:00	0 Day 00:00:00	0 Day 00:00:00	0 Day 00:00:18
Total Time no alarm	0 Day 00:07:38	0 Day 00:07:36	0 Day 00:07:38	0 Day 00:07:20


View data

Recorded data are shown in this file. To access View data use icon 

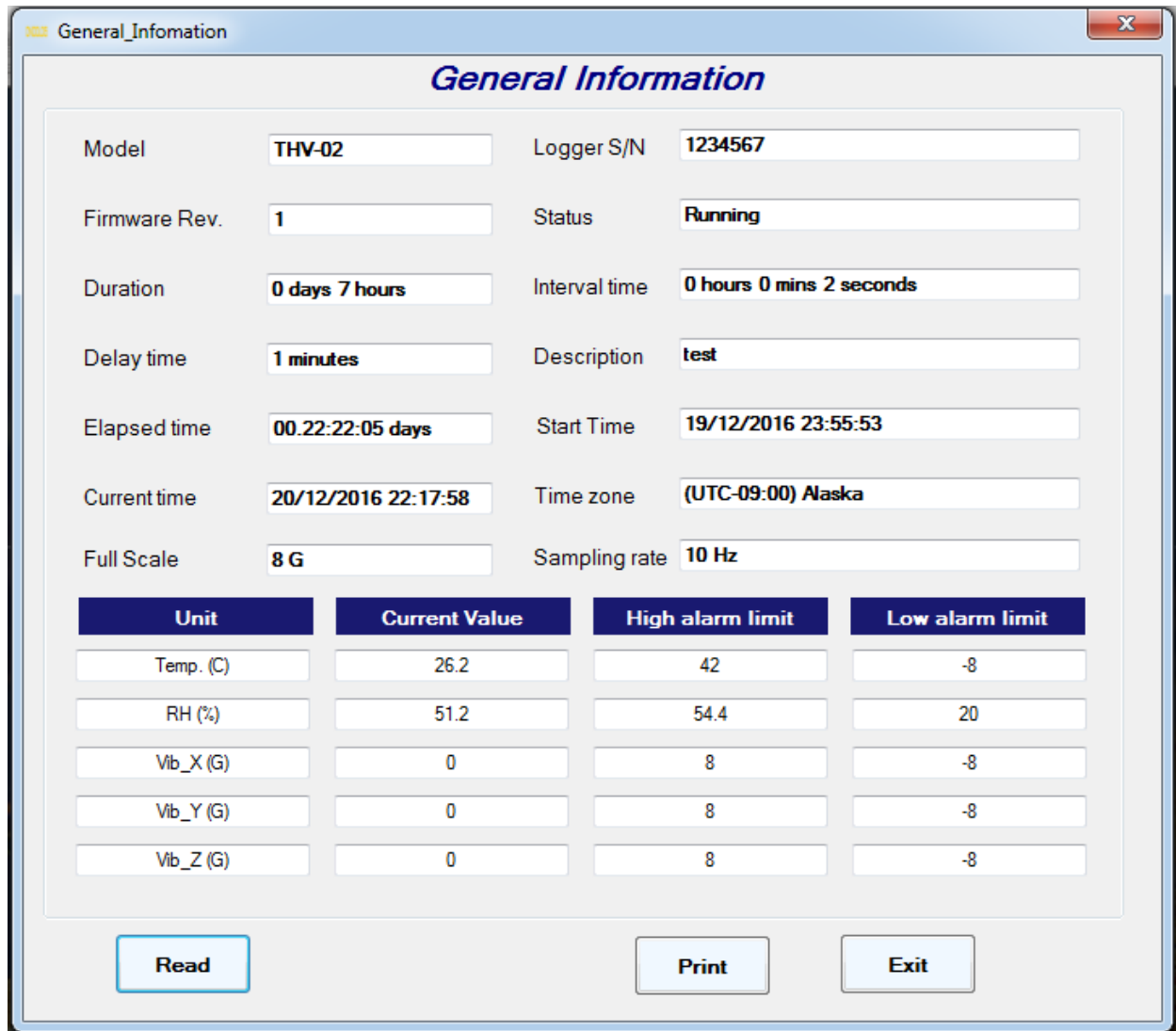
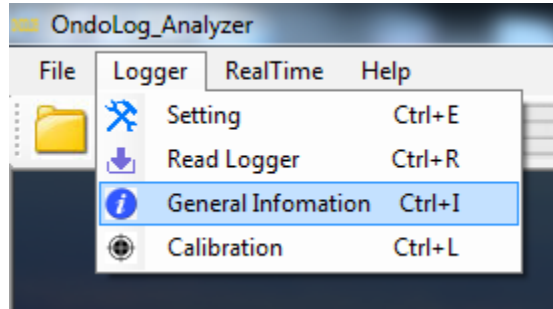


The screenshot shows the 'View Data' window of the Ondolog Analyzer. The window title is 'Ondolog_Analyzer - [View Data]'. The menu bar includes 'File', 'Logger', 'RealTime', and 'Help'. The toolbar contains various icons for file operations and data viewing. The main area displays a table with the following data:

Pos.	Time	Elapsed Time	Temp (C)	Humid (%)	Vib_X (G)	Vib_Y (G)	Vib_Z (G)
1	13:08:53 28-04-2016	00:00:00	29.7	43.9	0	0	0
2	13:08:55 28-04-2016	00:00:02	29.7	43.9	0	0	0
3	13:08:57 28-04-2016	00:00:04	29.7	43.9	0	0	0
4	13:08:59 28-04-2016	00:00:06	29.7	43.9	0	0	0
5	13:09:01 28-04-2016	00:00:08	29.7	44	0	0	0
6	13:09:03 28-04-2016	00:00:10	29.7	44.1	0	0	0
7	13:09:05 28-04-2016	00:00:12	29.7	44.2	0	0	0
8	13:09:07 28-04-2016	00:00:14	29.7	44.2	0	0	0
9	13:09:09 28-04-2016	00:00:16	29.7	44.2	0	0	0
10	13:09:11 28-04-2016	00:00:18	29.7	44.2	0	0	0
11	13:09:13 28-04-2016	00:00:20	29.7	44.2	0	0	0
12	13:09:15 28-04-2016	00:00:22	29.7	44.1	0	0	0
13	13:09:17 28-04-2016	00:00:24	29.7	44.1	0	0	0.171
14	13:09:19 28-04-2016	00:00:26	29.7	44	0	0	0
15	13:09:21 28-04-2016	00:00:28	29.7	44	0	0	0
16	13:09:23 28-04-2016	00:00:30	29.7	43.9	0	0	0
17	13:09:25 28-04-2016	00:00:32	29.7	43.9	0	0	0

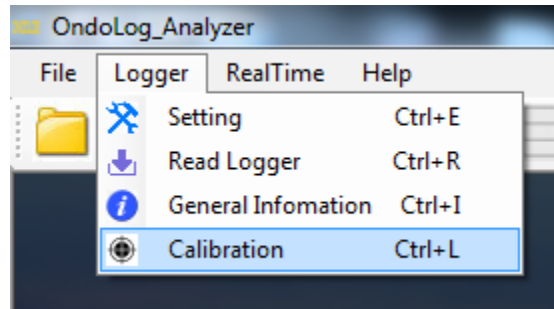
To export file use button  and then choose the file type.

5. General information

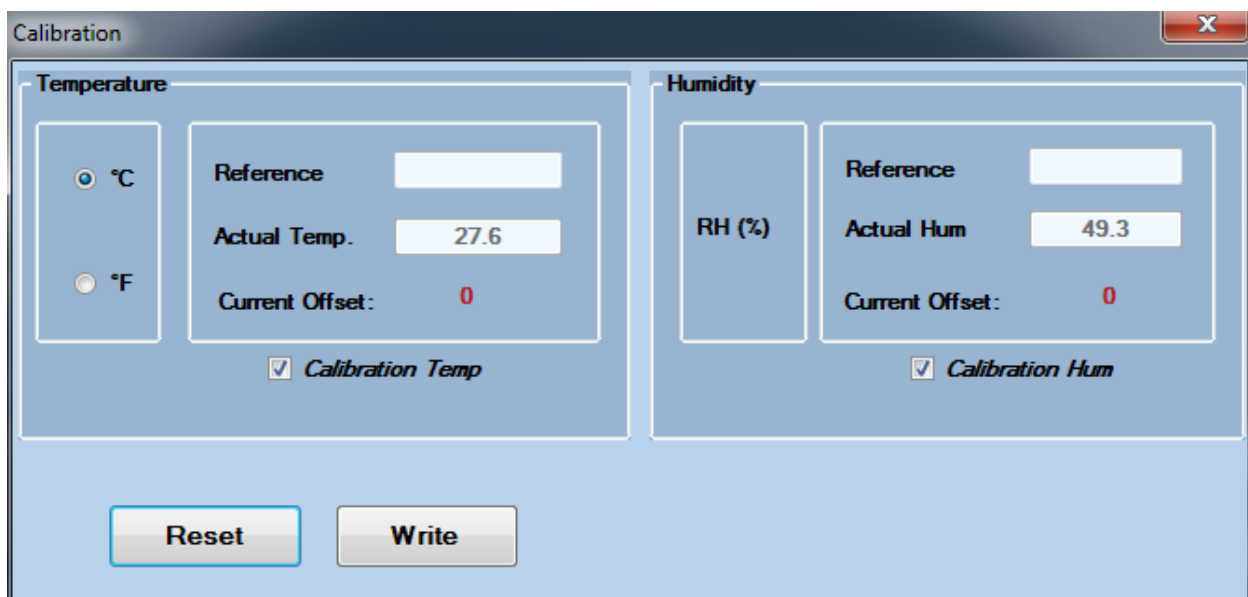


In general information, user can check the status of logger. There are 5 status : Running (logger is recording), Stopped (logger is stopped), Set (logger is set and in standby mode), Delaying (logger is delaying to start), No setting (logger has no setting).

6. Calibration



Calibration is used to adjust the temperature or humidity sensors drift.



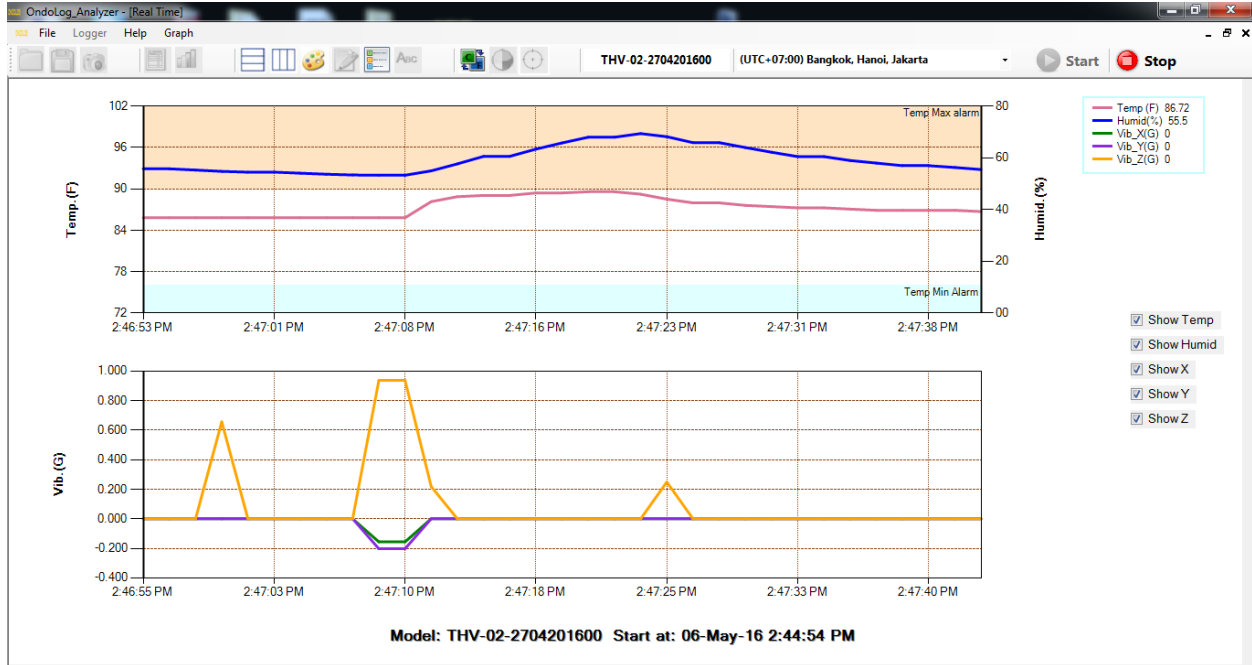
To calibrate following these steps :

1. Choose the sensor to calibrate by check to Calibration Temp and Calibration Hum
2. Choose unit for temperature (°C or °F)
3. Input Reference value
4. Press Write to complete calibration
5. Press Reset to reset the current offset.

Note : The logger must be stopped before calibration.

7. Real Time

In Real Time mode chart, the sensor values are updated every 1s.

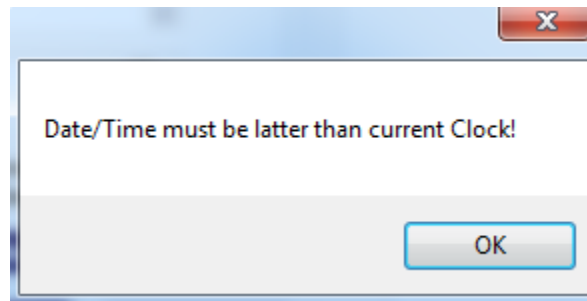


8. Error messages

Setting

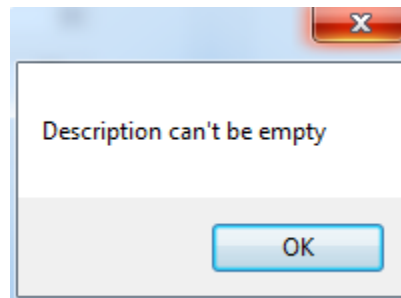
Date/Time

Date/Time set is smaller than the Date/Time of current clock. The Date/Time must be later than current clock.



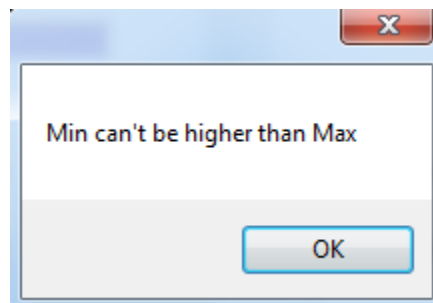
Description

No input data for description. Description could not be empty.



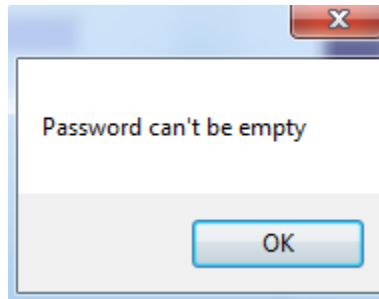
Alarm

Minimum level is higher than maximum level. Click OK and write again the correct value.



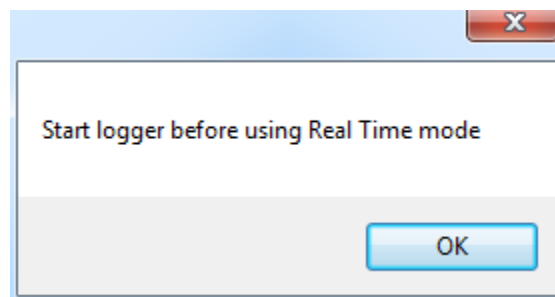
Password

Password could not be empty if security box is checked. Click OK and enter the password.



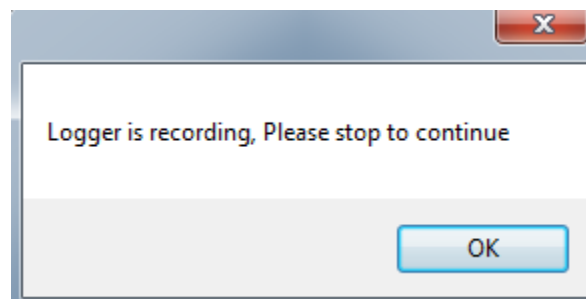
Real Time

Real Time mode can run only if the logger is started.



Calibration

To start calibration, the logger must be stopped.



Reference value is not entered.

