25. EasyConverter

This Chapter explains how to use EasyConverter.

25.1. Overview

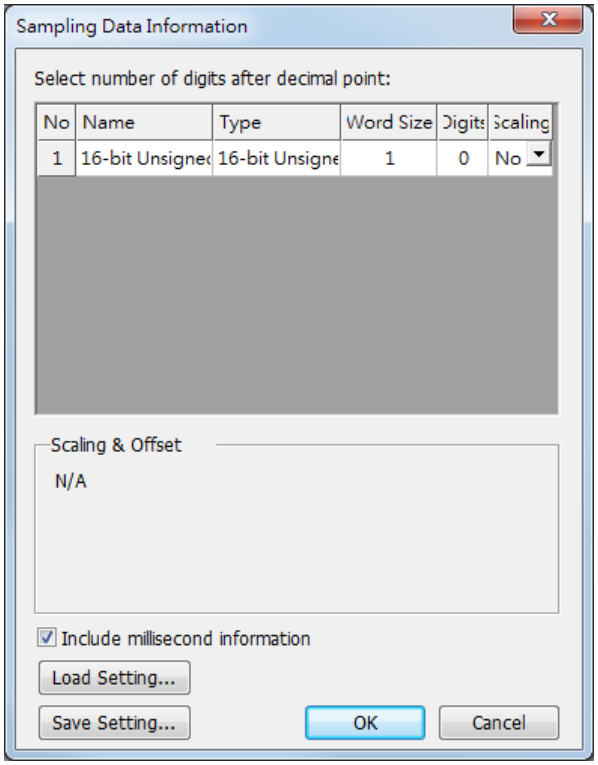
EasyConverter reads the data sampling file (.dtl) and event log file (.evt) in HMI and convert the files to Excel (.xls) format.

There are two ways to launch EasyConverter.

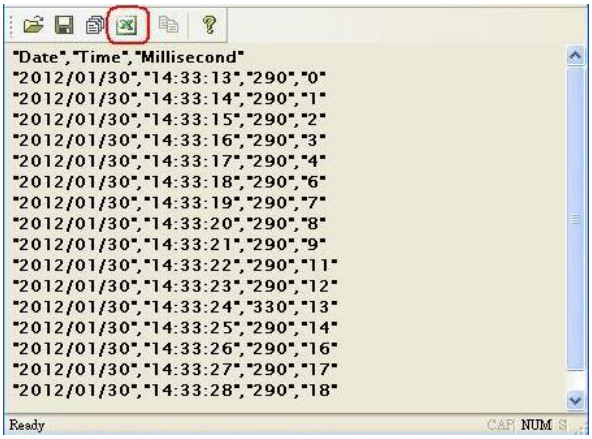
- From Utility Manager click [EasyConverter].
- From EasyBuilder Pro menu select [Tool] » [Data/Event Log Converter].

25.2. Steps to Convert DTL or EVT File to Excel File

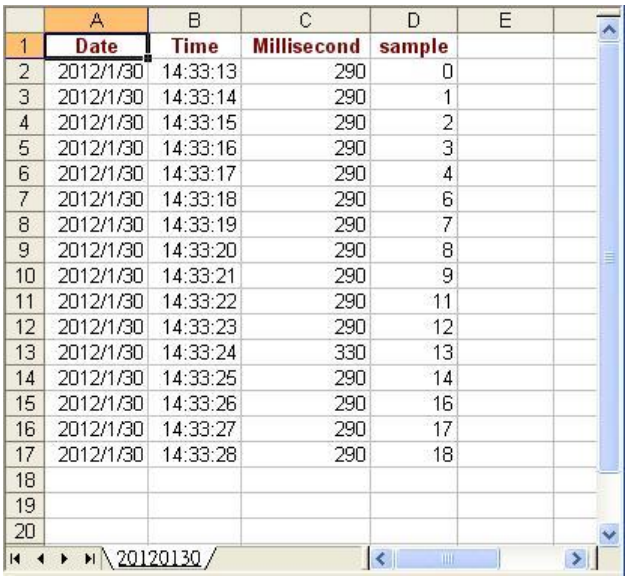
1. When opening a data sampling file (.dtl), the following dialog box appears.



2. After setting click OK and then click [Export to Microsoft Excel].



3. The excel file is displayed as the following figure.



	A	B	C	D	E
1	Date	Time	Millisecond	sample	
2	2012/1/30	14:33:13	290	0	
3	2012/1/30	14:33:14	290	1	
4	2012/1/30	14:33:15	290	2	
5	2012/1/30	14:33:16	290	3	
6	2012/1/30	14:33:17	290	4	
7	2012/1/30	14:33:18	290	6	
8	2012/1/30	14:33:19	290	7	
9	2012/1/30	14:33:20	290	8	
10	2012/1/30	14:33:21	290	9	
11	2012/1/30	14:33:22	290	11	
12	2012/1/30	14:33:23	290	12	
13	2012/1/30	14:33:24	330	13	
14	2012/1/30	14:33:25	290	14	
15	2012/1/30	14:33:26	290	16	
16	2012/1/30	14:33:27	290	17	
17	2012/1/30	14:33:28	290	18	
18					
19					
20					

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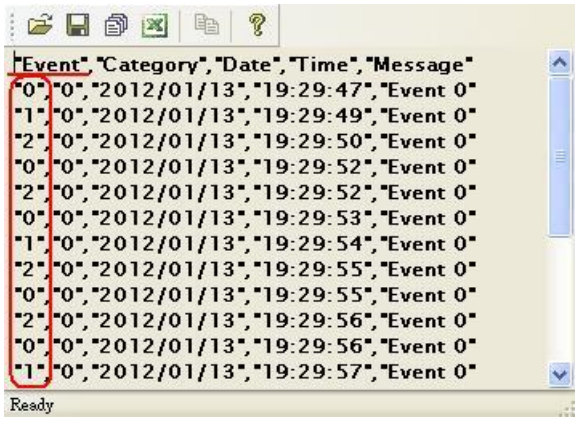
When opening an event log file, an [Event] column can be found as shown in the following figure.

0 → Event triggered; 1 → Event acknowledged; 2 → Event returns to normal.



```
"Event","Category","Date","Time","Message"
"0","0","2012/01/13","19:29:47","Event 0"
"1","0","2012/01/13","19:29:49","Event 0"
"2","0","2012/01/13","19:29:50","Event 0"
"0","0","2012/01/13","19:29:52","Event 0"
"2","0","2012/01/13","19:29:52","Event 0"
"0","0","2012/01/13","19:29:53","Event 0"
"1","0","2012/01/13","19:29:54","Event 0"
"2","0","2012/01/13","19:29:55","Event 0"
"0","0","2012/01/13","19:29:55","Event 0"
"2","0","2012/01/13","19:29:56","Event 0"
"0","0","2012/01/13","19:29:56","Event 0"
"1","0","2012/01/13","19:29:57","Event 0"
Ready
```

Note

- Double click a .dtl or .evt file will automatically generate an Excel file. However, if the strings in .dtl file are in UNICODE, please open EasyConverter to convert the file manually.

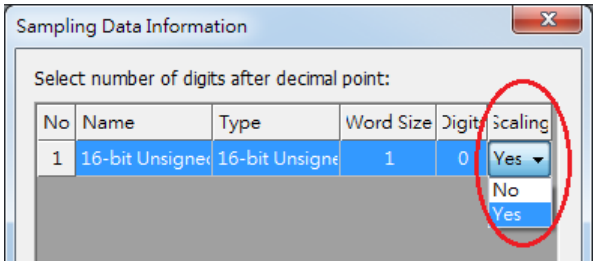
25.3. Scaling Function

The equation of scaling: new value = [(value + A) x B] + C

Users can set the values of A, B, and C.

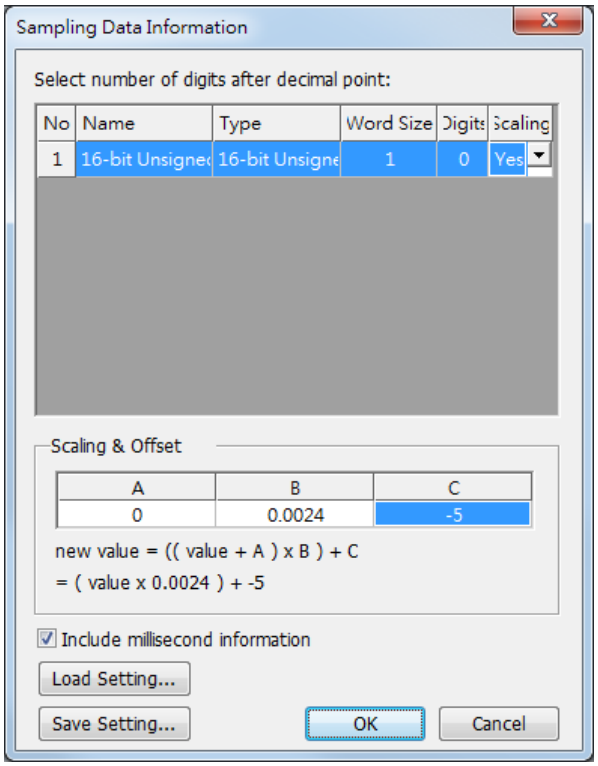
A: lower limit of the value; B: [(scaled max.) - (scaled min.)] / [(upper limit) - (lower limit)];

C: scaled min.

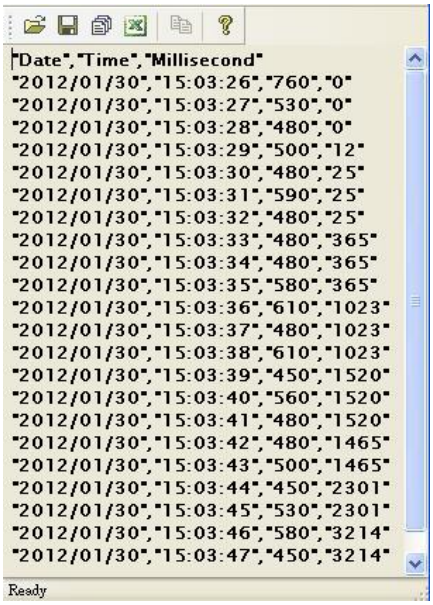


For example, here is a voltage data, the format is 16-bit unsigned (range: 0 ~ 4096).

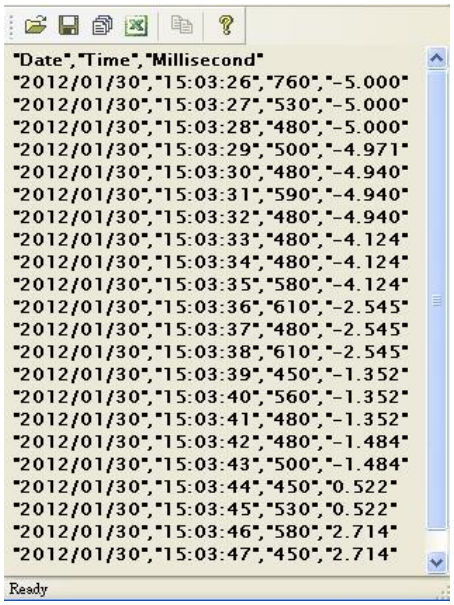
To convert the data to volt, range: -5V ~ +5V, the new value = [(value + 0) x 0.0024] + (-5).



Before scaling:



After scaling:

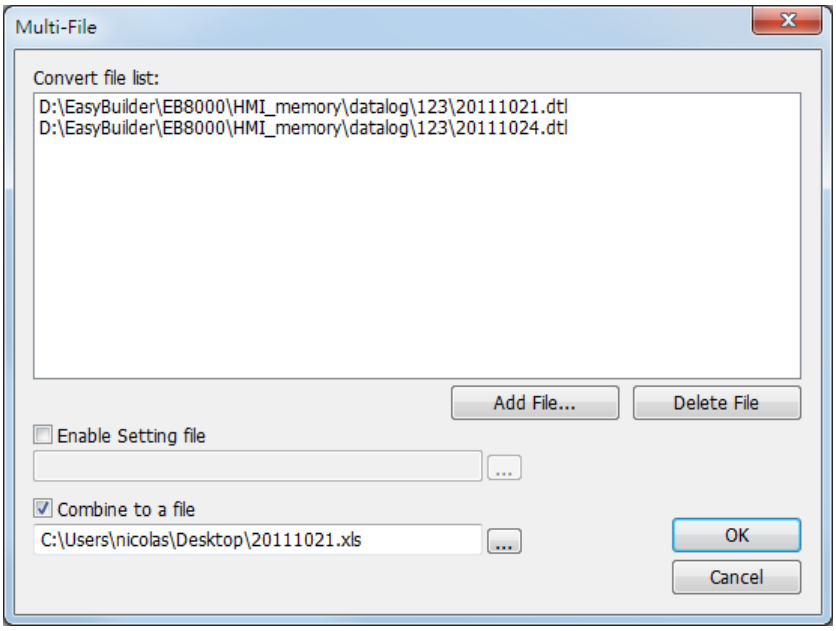


Note

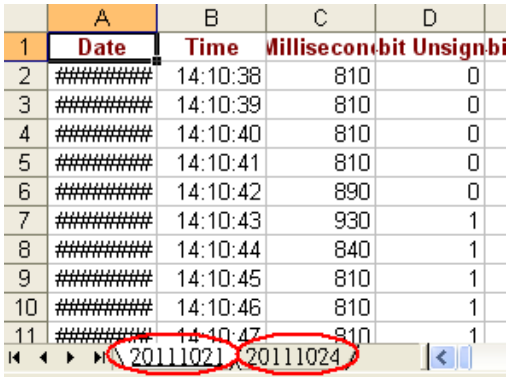
- The settings described earlier can be saved and loaded next time. The extension name of the setting file is .lgs.
- After setting the scaling values, click [Save Setting]. In the new Sampling Data Information dialog box, click [Load Setting] to use the settings saved before.

25.4. Steps to Convert Multiple Files

1. Select [File] » [Multi-File] » [Add File] to combine multiple files into one Excel (.xls) file.
2. Select [Combine to a file], files will be separated into sheets in one Excel (.xls) file labeled with the date it is created. If this check box is not selected, the files will be exported to Excel respectively.



3. The excel file is displayed as the following figure.



	A	B	C	D
1	Date	Time	Millisecon	bit Unsign
2	##########	14:10:38	810	0
3	##########	14:10:39	810	0
4	##########	14:10:40	810	0
5	##########	14:10:41	810	0
6	##########	14:10:42	890	0
7	##########	14:10:43	930	1
8	##########	14:10:44	840	1
9	##########	14:10:45	810	1
10	##########	14:10:46	810	1
11	##########	14:10:47	810	1

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The saved setting files can be loaded for combining:

1. Select both [Enable Setting file] and [Combine to a file] check boxes.
2. Select the files to be combined then click [OK].