



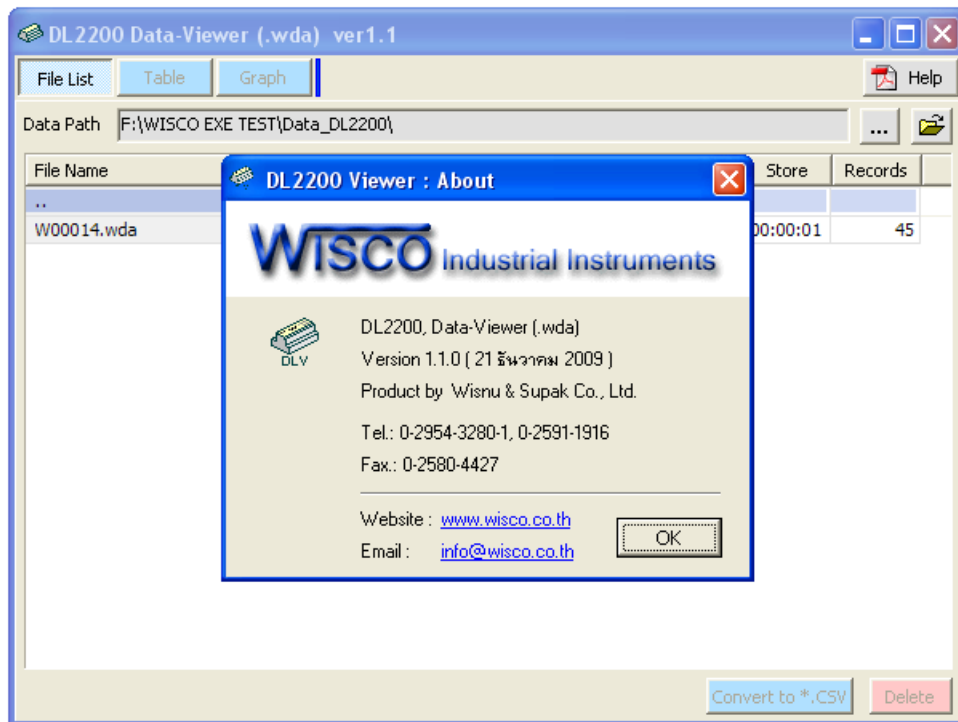
Data Viewer

DL2200



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DL2200 Data Viewer



DL2200 Data Viewer is program for downloading data from Datalogger. Moreover, Program can display data in data-table and data-graph. Program can translate data to comma delimited (*.csv) which compatible to work on Microsoft excel.

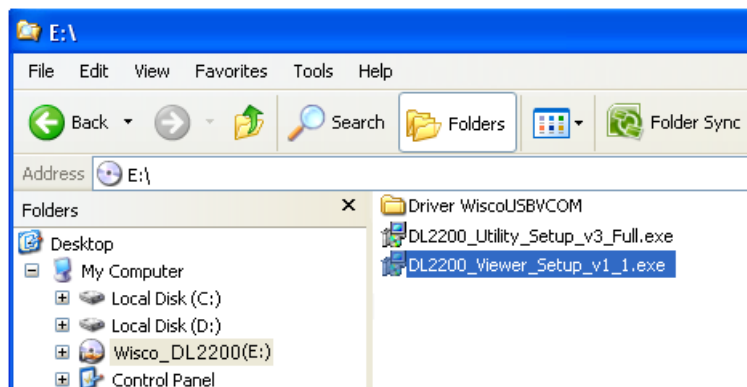
DL2200 Data Viewer is only capable of reading data file from memory card or computer memory (program cannot directly read data from data logger)

1. DL2200 Data Viewer Introduction

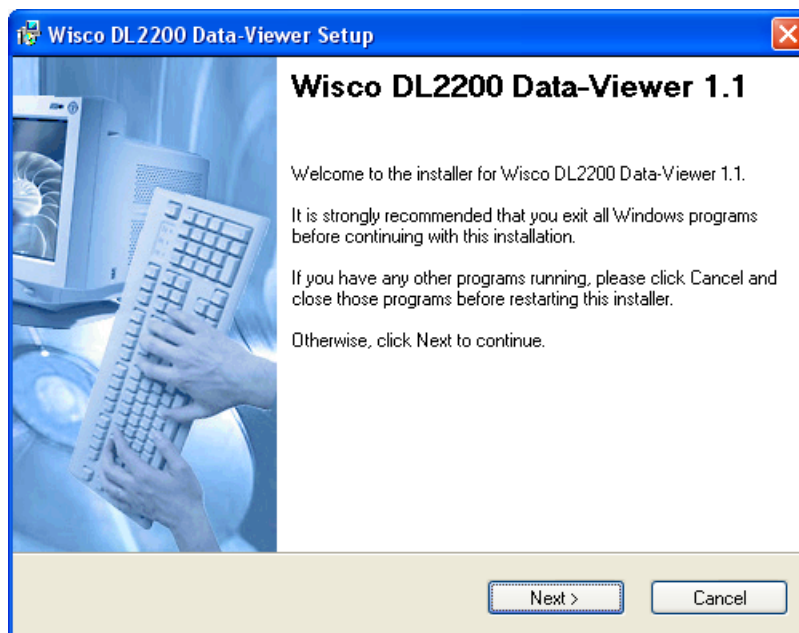
1.1 How to install DL2200 Data Viewer

There are 2 sources for download file:

- ❖ Company website www.wisco.co.th/main/downloads
(DL2200_Viewer_Setup_v1_1.exe)
- ❖ Start-up CD
 - insert CD into CD/DVD-ROM
 - open DL2200_Viewer_Setup_v1_1.exe



Continue click until installation has been done



To open DL2200 Viewer:

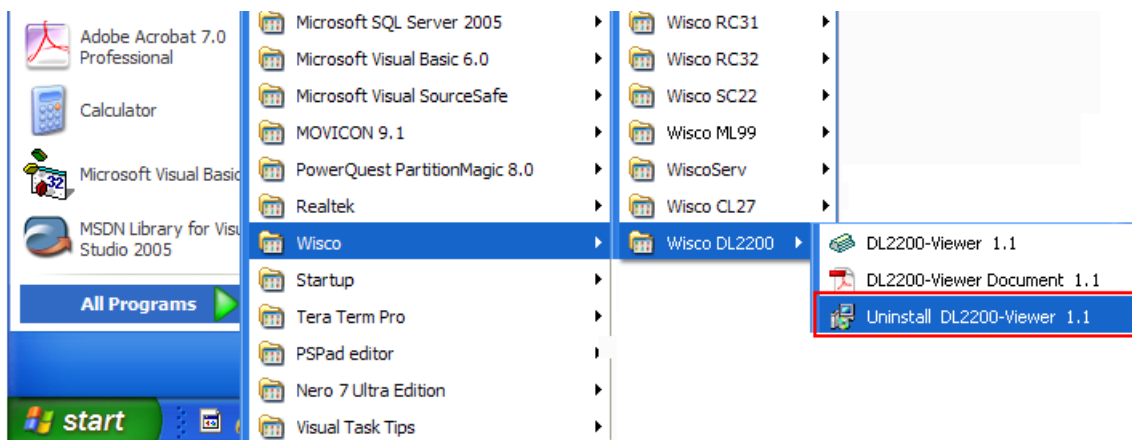
[Windows Drive] > Program Files > Wisco > Wisco Datalogger > DL2200 Viewer

Or open DL2200 viewer by shortcut:

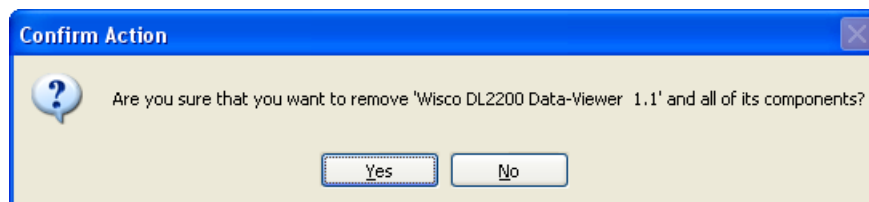
Start > All Programs > Wisco > Wisco DL2200 > DL2200-Viewer 1.1

1.2 How to uninstall DL2200 Data Viewer

Click start -> All Programs -> Wisco -> Wisco DL2200 -> Uninstall
DL2200-Viewer 1.1



➤ Then click to confirm uninstall process

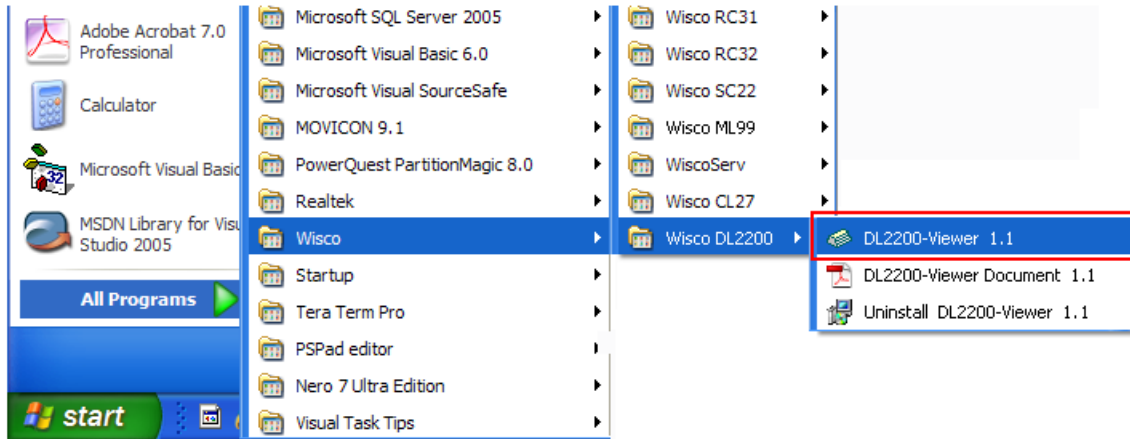


➤ Wait until window completely remove Wisco DL2200 Dta-Viewer

1.3 How to run DL2200 Data Viewer program

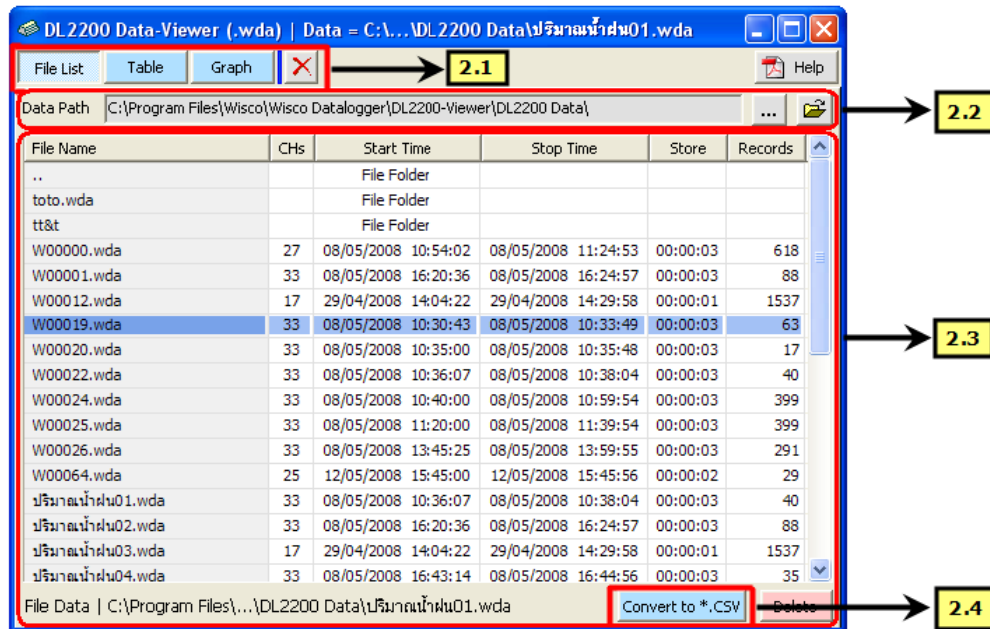
click start -> All Programs -> Wisco -> Wisco DL2200 -> DL2200-Viewer

1.1 DL2200 Data Viewer window will show up

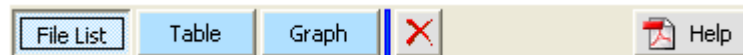


2. How to operate DL2200 Data Viewer

DL2200 Data Viewer program is be able to read *.wda file which is the recorded data from datalogger. DL2200 Data Viewer program is capable of show data as data table and data graph.

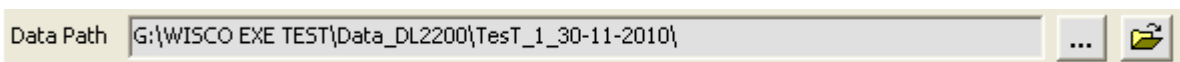


2.1 Button Group



- **File List** show data file list for user to choose desired data file
- **Table** Show data as data table
- **Graph** Show data as data graph
- **X** close current file
- **Help** open manual file for help

2.2 Data Path




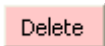

- **Data Path** display location of saved data file
- **...** for selecting location of saved data
- **Folder icon** to open folder that indicate on data path box

2.3 Data List

Data List show name list and information detail of *.wda

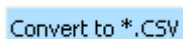
- **File Name** display folder or data *.wda file
- **CHs** show amount of channel that have been enable for recording
- **Start Time** date and time for recorded the first data
- **Stop Time** date and time for recorded the last data
- **Store** show store time
- **Records** amount of data that have been recorded on file

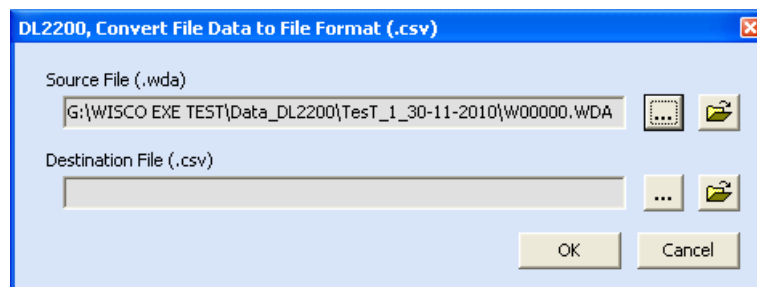
Command:

- **Open File** Double click on file name or click file name then click  in order to open file. Opened file will be show as data table and data graph
- **Delete File** Click at the file name then click  or click  on the keyboard to permanently delete file.

2.4 Convert File

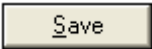
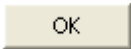

DL2200 Data Viewer can convert file to *.cdv file which is capable of working on Microsoft Excel. Click on the file name of file List and then click





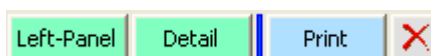
- **Source File** display file name (*.wda) which will be convert
- **Destination File** is file name for *.csv file that was converted

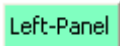
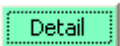
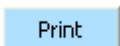

To choose saved file location by click  then insert name file of *.csv file

and click  after converted process has been done click  if converted process is success,  button will show up.

3. How to operate Data Table

3.1 Button Group



-  Hide/Unhide left-side panel (box **3.2** and box **3.3**)
-  Hide/Unhide Data detail of table (box **3.4**)
-  Print data (topic **3.7**)
-  close current file and go back to file list

3.2 File Detail

Name	DL2200
Store Time	00:00:01
Records	45
Begin	16/03/2010 16:55:13
View Data	by Record ▾ >>
: From	1
: To	45
End	16/03/2010 16:55:57

- **Name** Name of Datalogger
- **Store Time** interval of record time
- **Records** number of recorded file
- **Begin** is date and time of the first record data
- **View Data** to identify interval of time that want to display, it can be done by choose date and time or choose number of data (topic 3.5)
- **End** is date and time of the last recorded data

3.3 Checkbox List

<input checked="" type="checkbox"/> ID	Record Number
<input checked="" type="checkbox"/> Date	Date
<input checked="" type="checkbox"/> Time	Time
<input checked="" type="checkbox"/> Ai1	AI1
<input checked="" type="checkbox"/> Ai2	AI2
<input checked="" type="checkbox"/> Ai3	AI3
<input checked="" type="checkbox"/> Ai4	AI4
<input checked="" type="checkbox"/> Ai5	AI5
<input checked="" type="checkbox"/> Ai6	AI6
<input checked="" type="checkbox"/> Ai7	AI7
<input checked="" type="checkbox"/> Ai8	AI8

DL2200 data viewer can config topic for display on data table by click on the check list which locate at lower left of the data table

- **ID (Record Number)** Hide/Unhide number of recorded data, unit, maximum value, minimum value, and sum of all
- **Date** Hide/Unhide date
- **Time** Hide/Unhide time
- **Ai#** Hide/Unhide data of analog input channel
- **D#** Hide/Unhide data of digital input/output
- **Ct#** Hide/Unhide data of Counter channel

เมนู **POPUP**

Right click on the check list and choose desired display

✓ Show Analog	Ctrl+S
✓ Show Digital	Ctrl+D
✓ Show Counter	Ctrl+F
Show All	Ctrl+A

- **Show Analog** Hide/Unhide all of analog data or click Ctrl+S
- **Show Digital** Hide/Unhide all of digital data or click Ctrl+D
- **Show Counter** Hide/Unhide all of counter data or click Ctrl+F
- **Show All** Hide/Unhide all data or click Ctrl+A

3.4 Data Detail

No.	Date	Time	AI1	AI2	AI3	AI4
Unit	--	--	mA	C	C	C
Max	--	--	12.0	32.5 (1)	32.5 (1)	32.5 (1)
Min	--	--	--	30.7 (1)	30.7 (1)	30.7 (1)
Total	--	--	--	--	--	--

- **Unit** unit of Analog Input and Counter
- **Max** Maximum value of analog input, counter (red color) and show label "ON" of digital I/O (green color)
- **Min** Minimum value of analog input, counter (blue color) and show label "OFF" of digital I/O
- **Total** show sum of all counter data

3.5 Data Table

AI5	AI6	AI7	AI8	DI1	DI2	DI3
C	C	C	C	--	--	--
32.5 (1)	32.5 (1)	32.5 (1)	32.5 (1)	ON	ON	ON
30.7 (1)	30.7 (1)	30.7 (1)	30.7 (1)	OFF	OFF	OFF
--	--	--	--	--	--	--
32.2	32.2	32.1	32.2	OFF	OFF	OFF
31.8	31.8	31.8	31.8	OFF	OFF	OFF
31.5	31.5	31.5	31.5	OFF	OFF	OFF
31.8	31.8	31.8	31.9	OFF	OFF	OFF
31.5	31.5	31.5	31.5	OFF	OFF	OFF
31.7	31.7	31.7	31.7	OFF	OFF	OFF
31.0	31.0	31.0	31.0	OFF	OFF	OFF
31.8	31.8	31.8	31.9	OFF	OFF	OFF
32.0	32.0	32.0	32.0	OFF	OFF	OFF
31.0	31.0	31.0	31.0	OFF	OFF	OFF
31.7	31.7	31.7	31.7	OFF	OFF	OFF
30.7	30.7	30.7	30.7	OFF	OFF	OFF
31.3	31.3	31.3	31.3	OFF	OFF	OFF
31.6	31.6	31.6	31.6	OFF	OFF	OFF
31.3	31.3	31.3	31.3	OFF	OFF	OFF

Display data as setup from topic 3.2 and topic 3.3

- **AI** display analog input data. Maximum value will be paint by red color and Minimum value will be paint by blue color. If value go over maximum scale, "OVR" will show or if value go under scale, "UDR" will show.
- **D** display Digital Input/Output. For "ON" status, background will be green color. "OFF" status, background will be no color
- **CT** display Counter value

Note: AI is analog input
D is digital input/output
CT is counter




3.6 View Data

Identify Start/Stop point for display

View Data	by Record	>>
: From	1	
: To	63	

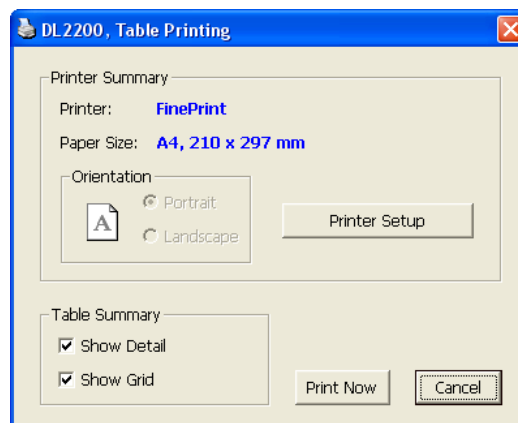
View Data	by Time	>>
: From	08/05/2008 10:30:43	
: To	08/05/2008 10:33:49	

- **by Record** display data according to data sequence
- **by Time** display data according to date and time



set up start point at "From" box and set stop point at "To". Click  to increase number and click  to decrease number. User is able to key in the number of start/stop point then click 

3.7 Print

Click  button to print



The dialog box titled "DL2200, Table Printing" contains the following sections:

- Printer Summary:**
 - Printer: **FinePrint**
 - Paper Size: **A4, 210 x 297 mm**
 - Orientation:**
 -  Portrait
 -  Landscape
 - Printer Setup** button
- Table Summary:**
 - ☒ Show Detail
 - ☒ Show Grid
 - Print Now** button
 - Cancel** button

Printer Summary

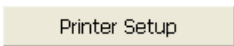
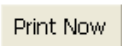
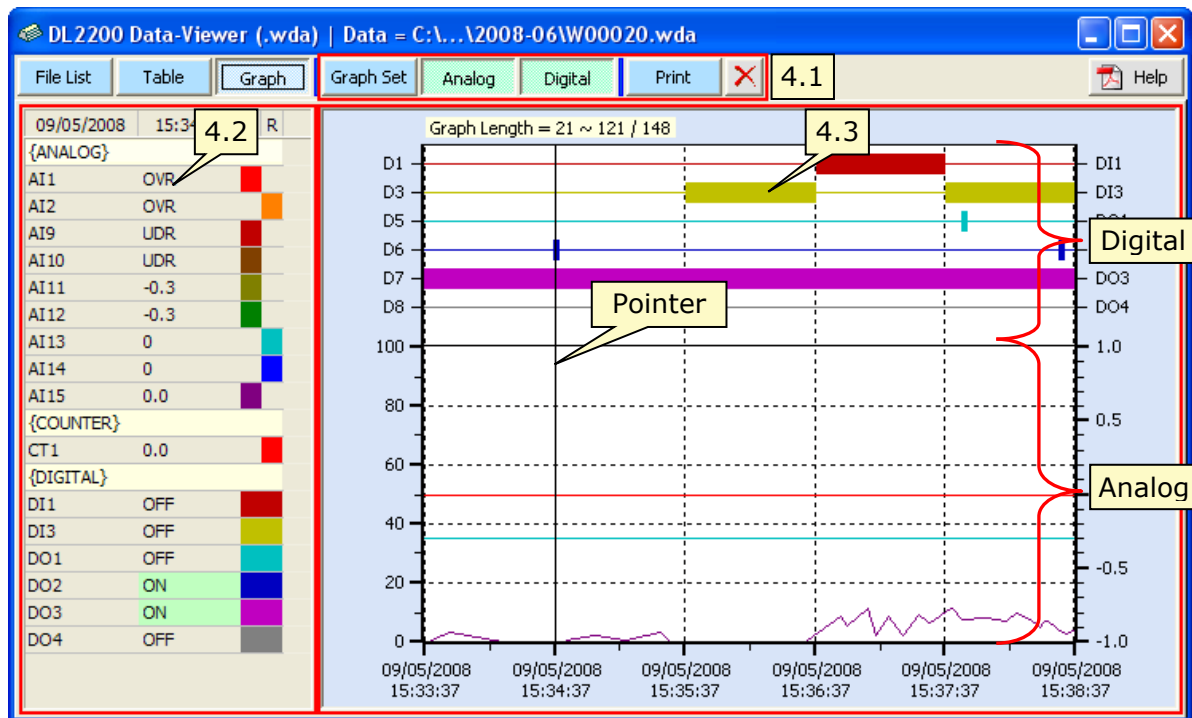
- **Printer** name of printer
- **Paper Size**
- **Orientation** portrait/landscape
-  choose printer and printer config

Table Summary

- **Show Detail** print data summary (topic 3.4)
- **Show Grid** print data with grid
-  button is print all data

4. How to operate Data Graph Function



4.1 Button Group



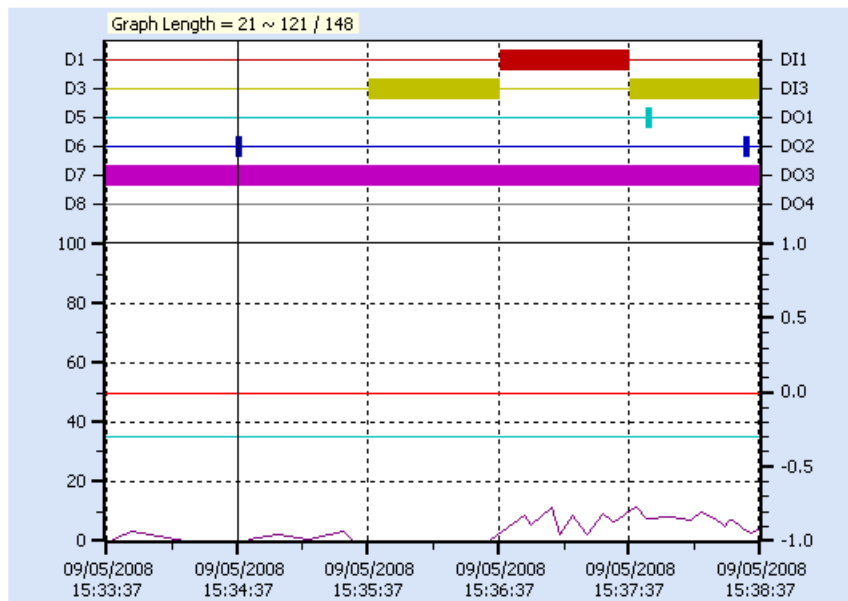
- **Graph Set** set up parameter of graph (topic **4.5**)
- **Analog** Hide/Unhide data of analog and counter
- **Digital** Hide/Unhide Digital Input/Output
- **Print** Print present data (หัวข้อ **4.4**)
- **X** close file and go back to File List

4.2 Graph Legend

16/03/2010	16:55:27	L	R
{ANALOG}			
AI1	12.0		
AI2	31.3		
AI3	31.3		
AI4	31.3		
AI5	31.3		
AI6	31.3		
AI7	31.3		
AI8	31.3		
{COUNTER}			
CT	0		
{DIGITAL}			
DI1	OFF		
DI2	OFF		
DI3	OFF		
DI4	OFF		
DO1	OFF		
DO2	OFF		
DO3	OFF		
DO4	OFF		

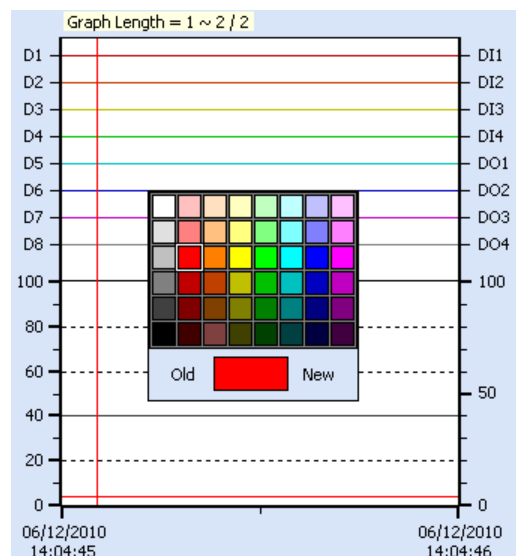
- **Date/Time** display date and time according to data
- **{ANALOG}** display analog input data
- **{COUNTER}** display counter data
- **{DIGITAL}** display Digital Input/Output data
- **L** reference with left axis
- **R** reference with right axis

4.3 Data Graph

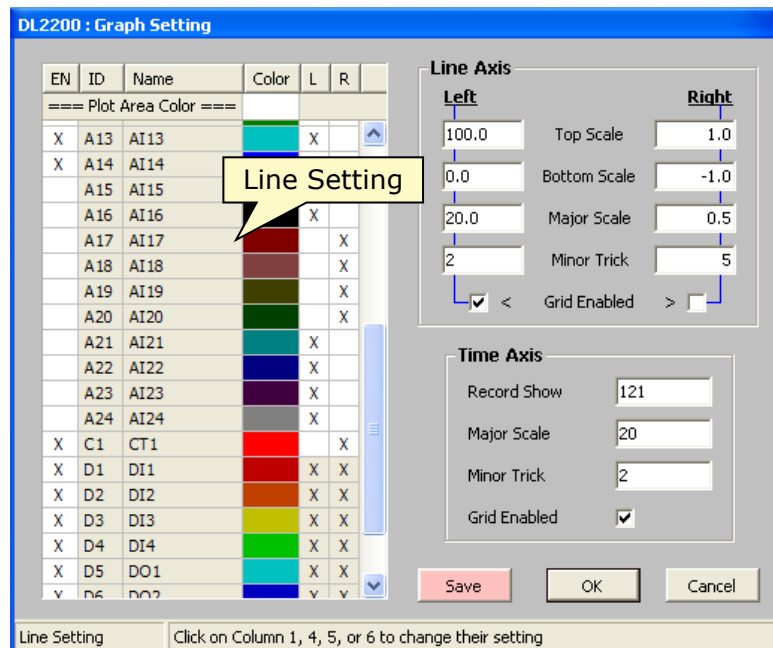


- **DI/DO** show digital input/output status, thin line is 0 (—) and thick line is 1 (■)
- **Analog Input and Counter** display data and reference to left, right axis

Graph can be move by hold left-mouse and move left or right (☞ -> ☜)
Right click on cursor to change cursor color



4.4 Graph Set



Click **Graph Set** for config Line Setting

- **EN** Hide/unhide graph
- **ID** is code of each signal
- **Name** name of signal
- **Color** line color
- **L/R** reference with left axis or right axis

Line Axis

- **Top Scale** maximum scale on graph
- **Bottom Scale** minimum scale on graph
- **Major Scale** set mark on axis
- **Major Tick** set up Major Scale
- **Grid Enabled** Hide/Unhide grid

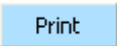
Time Axis- data line reference to time. What different from Line Axis

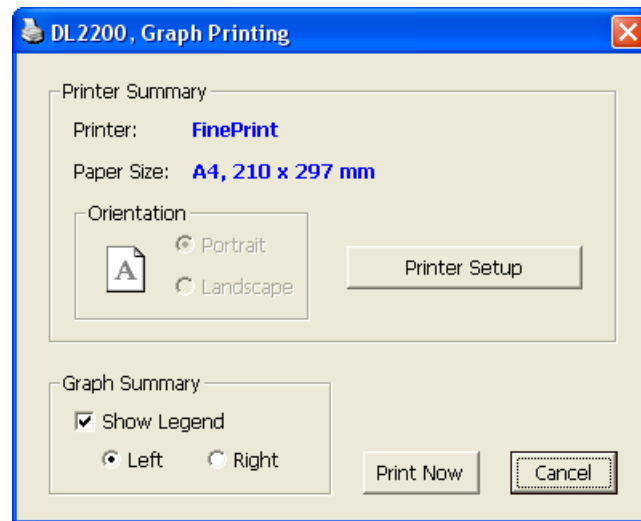
- **Record Show** amount of data on graph

Save save graph config


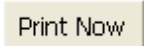
Click **OK** to display graph as user has been set up

4.5 Print

click  to print all data graph



Printer Summary

- **Printer** printer name
- **Paper Size** Displays the paper size used for printing.
- **Orientation** Displays the paper print orientation.
-  choose printer and printer config
- **Graph Summary**
- **Show Legend** specification of graph (topic 4.2) and can choose to reference with left or right axis
-  is printing data

Edit: 29/06/2023