

Demo of FindDataSamplingDate Function in Macro

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1. Overview and Operation

Overview


To find the date of Data Sampling file according to its index value.

Demo Project - FindDataSamplingDate

Step 1: Input:

index Data Sampling No.

Step 2: Trigger Macro





Step 3: Output:

yyyy

MM

DD

success


fail


No.	Time	Date	ch.0
254	14:57:46	01/12/11	0
253	14:57:45	01/12/11	0
252	14:57:44	01/12/11	0
251	14:57:43	01/12/11	0
250	14:57:42	01/12/11	0
249	14:57:41	01/12/11	0
248	14:57:40	01/12/11	0
247	14:57:39	01/12/11	0
246	14:57:38	01/12/11	0
245	14:57:38	01/12/11	0
244	14:57:36	01/12/11	0
243	14:57:35	01/12/11	0
242	14:57:34	01/12/11	0
241	14:57:33	01/12/11	0
240	14:57:32	01/12/11	0
239	14:57:31	01/12/11	0
238	14:57:30	01/12/11	0

Editor: Nicolas

Operation

The demonstration shows as follows:


Demo Project - FindDataSamplingDate

Step 1: Input:

index

Data Sampling No.

Step 2: Trigger Macro





Step 3: Output:

yyyy

MM

DD

success


fail


No.	Time	Date	ch.0
2302	19:43:22	01/12/11	0
2301	19:43:21	01/12/11	0
2300	19:43:20	01/12/11	0
2299	19:43:19	01/12/11	0
2298	19:43:18	01/12/11	0
2297	19:43:17	01/12/11	0
2296	19:43:16	01/12/11	0
2295	19:43:15	01/12/11	0
2294	19:43:14	01/12/11	0
2293	19:43:13	01/12/11	0
2292	19:43:12	01/12/11	0
2291	19:43:11	01/12/11	0
2290	19:43:10	01/12/11	0
2289	19:43:09	01/12/11	0
2288	19:43:08	01/12/11	0
2287	19:43:07	01/12/11	0
2286	19:43:06	01/12/11	0

Editor: Nicolas




Demo Project - FindDataSamplingDate

Step 1: Input:

index

Data Sampling No.

Step 2: Trigger Macro





Step 3: Output:

yyyy

MM

DD

success


fail


No.	Time	Date	ch.0
2302	19:43:22	01/12/11	0
2301	19:43:21	01/12/11	0
2300	19:43:20	01/12/11	0
2299	19:43:19	01/12/11	0
2298	19:43:18	01/12/11	0
2297	19:43:17	01/12/11	0
2296	19:43:16	01/12/11	0
2295	19:43:15	01/12/11	0
2294	19:43:14	01/12/11	0
2293	19:43:13	01/12/11	0
2292	19:43:12	01/12/11	0
2291	19:43:11	01/12/11	0
2290	19:43:10	01/12/11	0
2289	19:43:09	01/12/11	0
2288	19:43:08	01/12/11	0
2287	19:43:07	01/12/11	0
2286	19:43:06	01/12/11	0

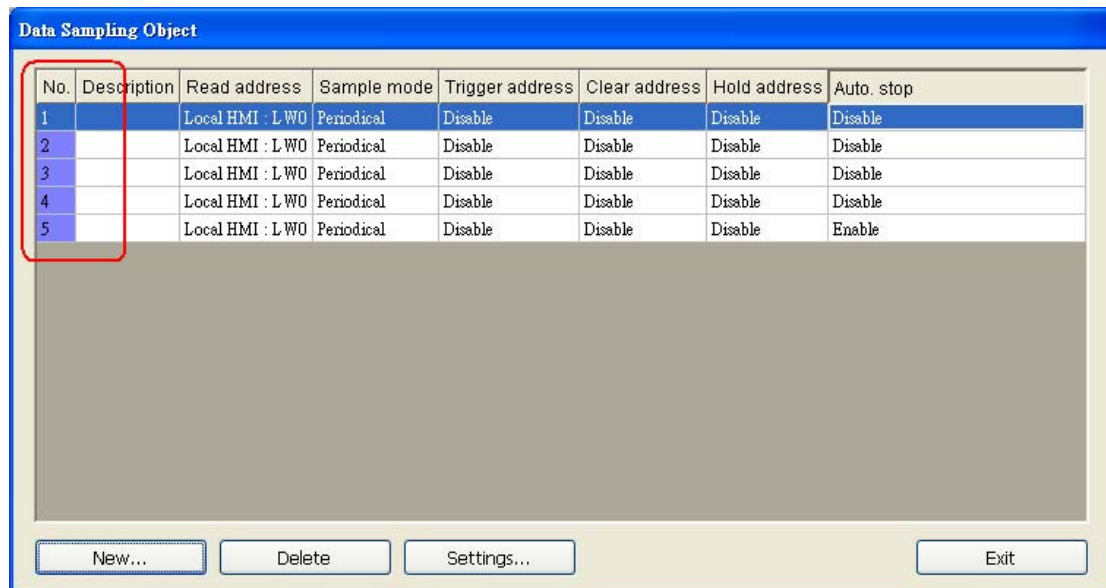
Editor: Nicolas

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V1.00

2. Setting up the Screen

1. Add multiple data in Data Sampling Object or download multiple history eventlog files to HMI.



2. Edit "FindDataSamplingDate" Macro Command.

```
macro_command main()
```

```
short data_log_number, index, year, month, day //Declare relevant  
parameters.
```

```
short success, fail //Declare variables to store the result.
```

```
// get data
```

```
GetData(data_log_number, "Local HMI", LW, 106, 1)
```

```
GetData(index, "Local HMI", LW, 108, 1)
```

```
success = FindDataSamplingDate(data_log_number, index, year, month, day)
```

```
// set data
```

```
SetData(year, "Local HMI", LW, 100, 1)
```

```
SetData(month, "Local HMI", LW, 102, 1)
```

```
SetData(day, "Local HMI", LW, 104, 1)
```

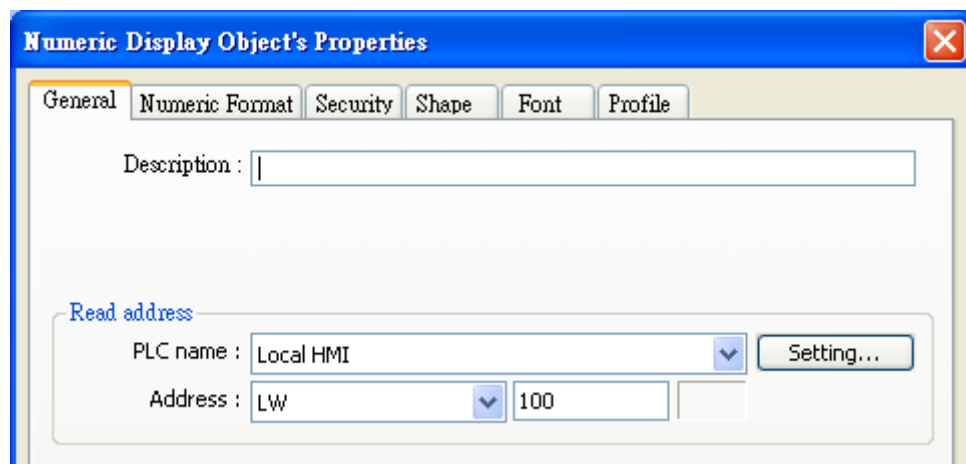
```
SetData(success, "Local HMI", LB, 112, 1)
```

```
fail = not success
```

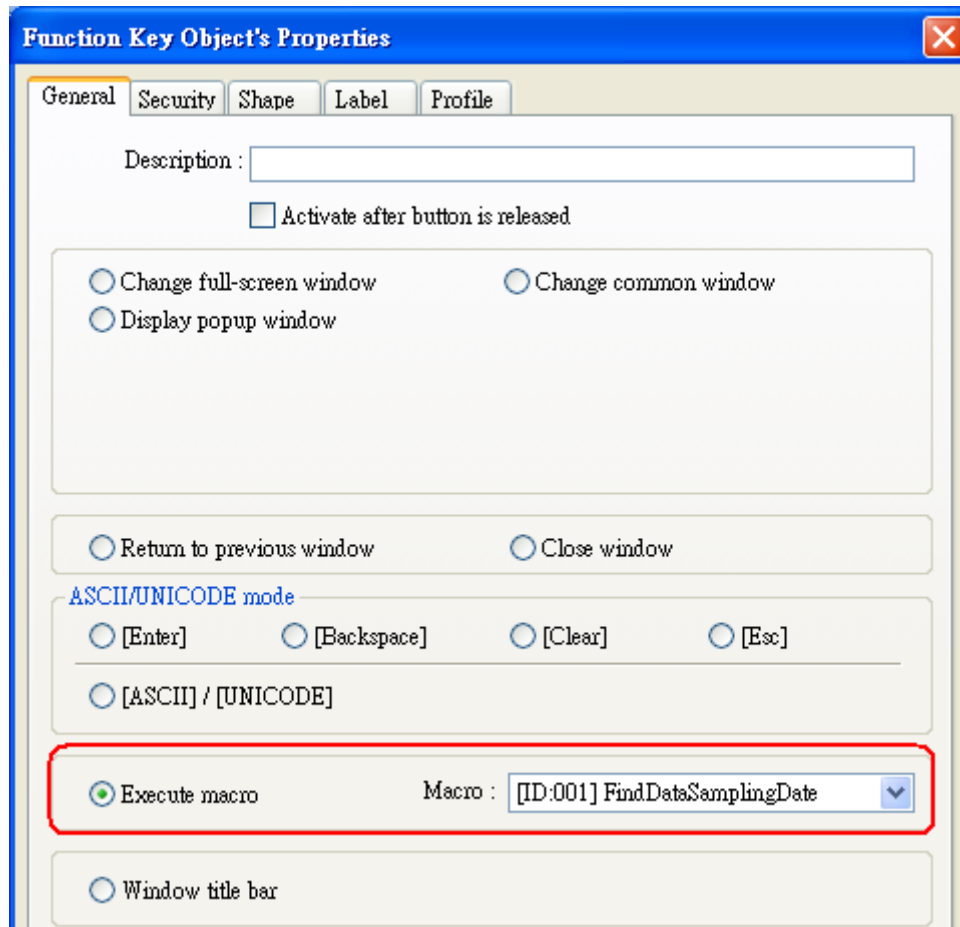
```
SetData(fail, "Local HMI", LB, 110, 1)
```

```
end macro_command
```

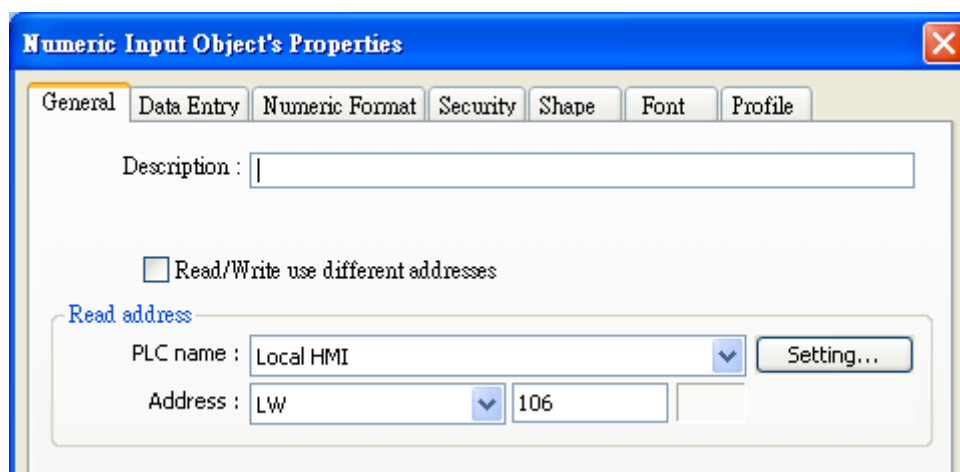
3. According to the addresses used in Macro, create three Numeric Display Objects of LW100, LW102, and LW104 for displaying the date of datalog history file when triggering Macro.



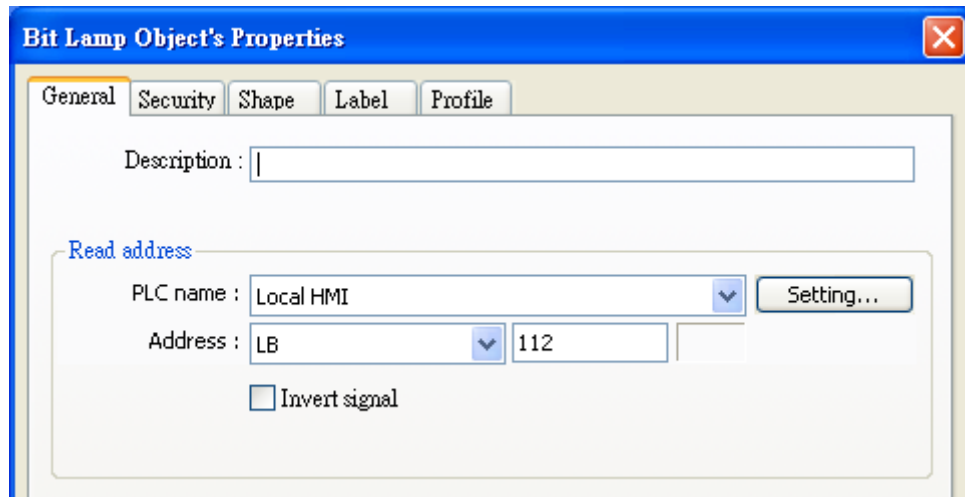
4. Create a Function key Object for triggering Macro "FindDataSamplingDate".



5. According to the addresses used in Macro, create two Numeric input Objects of LW106 (data sampling no.) and LW108 (index) for inputting history file source.



6. According to the addresses used in Macro, create two Bit Lamp Objects of LB110 (fail) and LB112 (success) for displaying whether the data sampling file is found or not.



7. According to the addresses used in Macro, create a History Data Display Object of LW108 for displaying datalog history file. A Trend Display Object set to History mode can also be created to display datalog history file.

History Data Display Object's Properties

General
 Data Format
 Title
 Shape
 Profile

Data Sampling Object index : 1

Grid
☒ Enable
 Color :
 Column interval : 0

Profile color
☐ Transparent
 Frame :
 Background :

Text
 Font : Arial
 Size : 12

Time
☒ Time
 HH:MM:SS
 Color :

Date
☒ Date
 MM/DD/YY
 Color :

☒ Sequence no.
 Color :

☐ Time ascending
☒ Time descending

History control
 PLC name : Local HMI
 Address : LW 108
 Setting...

3. Addresses

The addresses of objects used in this demonstration are listed below. Users can use different addresses or object ID base on actual usage.

Object	Address	Object ID	Description
Window 10			
Numeric input	LW-108	NE_0	Index of datalog history file
	LW-106	NE_1	Data Sampling No.
Function key		FK_0	Trigger Macro
Numeric display	LW-100	ND_0	Display Year
	LW-102	ND_1	Display Month
	LW-104	ND_2	Display Day
Bit lamp	LB-110	BL_0	Fail status
	LB-112	BL_1	Success status
History data display	LW-108	DD_0	Display datalog history file