

Demo Project for Scheduler



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1. Overview and Operation

Overview

Scheduler object is used to turn on/off a bit or write a value to a word device at designated time. The time schedule setting is very flexible, it can be on daily basis or weekly basis. For more advance application you can use a table (a block of word devices) to set start and terminate time, then update the table at any scheduled time.



Operation

[Bit ON mode]

After setting the [action mode], [start time] and [end time], users can touch Update setting button to make the system reads the new scheduled time.





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Demo project - Scheduler Time acquisition complete week hour minute second Start time 15 47 0 Ned End time 15 48 0 Wed RTC 15:47:14 Editor: Nicolas

When reaching the designated start time, LB0 turns ON.

↓

When reaching the designated end time, LB0 turns OFF.





2. Setting Up the Screen

[Bit ON mode]

1. Click Scheduler object to select Bit ON and set action address to LB0.

cheduler				
General Time Set	Prohibit			
Description	Scheduler 1			
1.	☑ Power-ON st	art/end action		
Action mode	💿 Bit ON	O Bit OFF	🔿 Word write	
Action address —				5
2. PLC name	: Local HMI			~
Device type	: LB			~
Address	: 0	📃 🗌 System ta	g	
Address format	: ddddd [range : ()~11999]		
		📃 Index reg	ister	
				-

2. On Scheduler / Time Set tab, select Address mode, and set time setting address to LW0.

WEINTEK		Demo Project for Scheduler
Scheduler		
General Time Set Prohibit Constant Constant	System tag	
	index register	
Control : Status :	0	
Action mode :	0+2	
Start time (day) :	0 + 3	
Start time (hour) :	0 + 4	
Start time (minute) :	0+5	
Start time (second) :	0+6	
End time (day) :	0+7	
End time (hour) :	0+8	
End time (minute) :	0+9	
Ena ume (second) :	0 + 10	

3. After all settings are completed, a new scheduler is listed in the table.

Scheduler	
1: Scheduler 1 : [Bit ON]->[Local HMI:LBO], Time:[Local HMI:LWO]	
·	
New Delete Settings	Exit



4. Follow the time setting address to set up related objects.

Scheduler		
General Tim	e Set Prohibit	
Contrat	A 11	
Constant	Maaress	
Time settin	g address]
PLC ns	me : Local HMI	✓
Device t	ype:LW	×
Addı	ress : 0	System tag
		Index register
	Control :	
	Status :	0+1
	Action mode :	0+2
	Start time (day) :	0+3
	Start time (hour) :	0 + 4
St	art time (minute) :	0 + 5
St	art time (second) :	0+6
	End time (day) :	0+7
	End time (hour) :	0+8
E	nd time (minute) :	0+9
E	nd time (second) :	0 + 10

5. Control (time setting address+0).

Create a toggle switch object and set address to LW_Bit 0000000. This object is used to update new scheduled time.

Toggle Switch Object's Properties
General Security Shape Label Profile
Description :
Read address
PLC name : Local HMI
Device type : LW_Bit
Address : 0000000 System tag
Index register
Invert signal
- Write address :
PLC name : Local HMI
Device type : LW_Bit
Address : 0000000 System tag
Address format : ddddd(dd) [range : 0 ~ 1050015, (dd) : bit no.(00 ~ 15)]
Index register
Write when button is released
- Attribute
Switch style : Toggle 💙

6. Status (time setting address+1).

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Create two bit lamp objects and set address to LW_Bit 0000100 (Time acquisition complete) and LW_Bit 0000101 (error notification).

Bit Lamp Object's Properties	×
General Security Shape Label Profile	
Description :	
Read address	
PLC name : Local HMI	*
Device type : LW_Bit	*
Address : 0000100 System tag	
Address format : ddddd(dd) [range : 0 ~ 1050015, (dd) : bit no.(00 ~ 15)]	
Index register	



7. Action mode (time setting address+2).

Create a toggle switch object and set address to LW_Bit 0000200. This object is used to enable end time.

Toggle Switch Object's Properties
General Security Shape Label Profile
Description :
Read address
PLC name : Local HMI
Device type : LW_Bit
Address : 0000200 System tag
Address format : ddddd(dd) [range : 0 ~ 1050015, (dd) : bit no.(00 ~ 15)]
Index register
Invert signal
Write address :
PLC name : Local HMI
Device type : LW_Bit
Address : 0000200 System tag
Address format - ddddd(dd) [ronge : 0 - 1050015, (dd) : bit no.(00 - 15)]
Index register
Write when button is released
- Attribute
Switch style : Toggle 🛛 👻
\

8. Start time (day, time setting address+3).

Create seven toggle switch objects and set address from LW_Bit 300 to 306 for each object.

Toggle Switch Object's Properties	×
General Security Shape Label Profile	
Description :	
	_
Read address	
PLC name : Local HMI	~
Device type : LW_Bit	~
Address : 300 System tag	
Address format : ddddd(dd) [range : 0 ~ 1050015, (dd) : bit no.(00 ~ 15)]	
Index register	
Invert signal	
Write address :	<u> </u>
PLC name : Local HMI	~
Device type : LW_Bit	~
Address : 300 System tag	
Address format : ddddd(dd) [range . 0 ~ 1050015, (dd) . bit no.(00 ~ 15)]	
🔲 Index register	
write when button is released	
Switch style : Toggle	

] <u>Weintek</u>

9. Start time (hour, time setting address+4), (minute, time setting address+5), (second, time setting address+6).

Create three numeric input objects and set address from LW4 to 6 for each object.

neral Data Entry	Numeric Format Security Shape Font	Profile
Description :		
Read address		
PLC name : I	Local HMI	*
Device type : I	LW	~
Address : 4	\$	J

10. End time (day, time setting address+7).

Create seven toggle switch objects and set address from LW_Bit 700 to 706 for each object.

	Properties		
eneral Security Shap	pe Label Profi	le	
Description :			
Read address			
PLC name : Lo	ocal HMI		*
Device type : LV	N_Bit		~
Address : 70	10	📃 System tag	
Address format : ddd	ldd(dd) [range : 0 ~ 1	050015, (dd) : bit no.(00 ~ 15)]	
		Index register	
	Invert signal		
Write address :			
PLC name : Lo)cal HMI		~
PLC name : Lo Device type : LV	ocal HMI N_Bit		~
PLC name : Lo Device type : LV Address : 70	ocal HMI N_Bit O	System tag	*
PLC name : Lo Device type : LV Address : 70 Address format : dd	ocal HMI N_Bit O ddd (dd) [range : 0 ~ :	System tag 1050015, (dd) : bit no.(00 ~ 15)]	*
PLC name : Lo Device type : LV Address : 70 Address format · dd	ocal HMI N_Bit O ddd(dd) [range : 0 ~ :	System tag 1050015, (dd) : bit no.(00 ~ 15)]	~
PLC name : Lo Device type : LV Address : 70 Address format : dd	ocal HMI W_Bit O ddd(dd) [range : O ~)	System tag 1050015, (dd) : bit no.(00 ~ 15)]	~
PLC name : Lo Device type : LV Address : 70 Address format : dd	ocal HMI W_Bit O ddd(dd) [range : 0 ~) Write when button is	System tag 1050015, (dd) : bit no.(00 ~ 15)]	~
PLC name : Lo Device type : LV Address : 70 Address format · dd	ocal HMI W_Bit O ddd(dd) [range : 0 ~ : Write when button is	System tag 1050015, (dd) : bit no.(00 ~ 15)] Index register <u>released</u>	× ×



11. End time (hour, time setting address+8), (minute, time setting address+9), (second, time setting address+10).

Create three numeric input objects and set address from LW8 to 10 for each object.

Numeric Input Obje	ct's Properties	×
General Data Entry	Numeric Format Security Shape Font Profile	
Description :		
Read address		
PLC name :	Local HMI	~
Device type :	LW	*
Address :	8 System tag	
Address format :	ddddd [mngo : 0 - 10500]	
	Index register	

12. After all required objects and settings are completed; a demo project for scheduler is shown below.

EasyBuilder8000 : Demo_Scheduk	er_ENG.mtp - [10 - scheduler]		
EB File Edit View Option Draw	Objects Libuary Tools Window Help		_ 8×
i 🗅 📽 🖬 i 🕹 🖻 📾 🗅 🗠 i	5 🤋 🕺 🖗 🔟 📰 封 🏘 🛃 🖻 🕒 🔊 🖓 😏 🗹		
•	• 🗛 🔺 📰 🗮 🗏 🛛 I 🛕 • 🖳 Language 1	 L1 L2 L3 L4 	
$ \mathbf{N} \leq \mathbf{V} \times \mathbf{V} = \mathbf{V} + \mathbf{V} $) 🌣 🏭 🕰 🖬 🗶 🗮 🚺 1 2 3	State 0	
: * * * * * £ # # #	〒8山県や県 尾田田田間 ▲▼▼☆ 田	G₀ ≡ 100 % ·	
Windows 🗸 🗙	10 - scheduler x		▶
Object list 🛛 🗸			
3: Fast Selection 4: Common Window 5: PLC Response 6: HMI Connection	^{sp_®} Demo project -	- Scheduler	
 7: Password Restriction 8: Storage Space Insufficient 			S 🖓
- 9	Action mode - Bit ON		R 🐨 🛍
III scheduler	BL_2		2 🔁 🕑
- 12		Time acquisition complete	ው 🐹
- 13		ate setting	SSE (##
- 15			💻 🔛
10			🚥 <u>i</u>
- 18		Error patification	<u> </u>
- 19 - 20		Enornouncauon	्य 😰
- 21			63 🖼
- 22	week	hour minute second	···· •
- 24	T6_0 T6_1 T6_2 T6_3 T6_4 T5_5		
			🔳 🕮 🚆
- 27			à 🔤
	TS_7 TS_8 TS_9 TS_10 TS_11 TS_1	TS_13 NE_2	B
- 30			E2
- 31	TS 15		4
- 33	End time.	RTC ####################################	
- 34			
- 30 - 36			-
37 💌	1		
For Help, press F1	MT6070H/MT8070H/MT6100A/MT8	100i (800 x 480) X = 780 Y = 465 (CAP NUM SCRL



3. Addresses

The addresses used in this demo project are listed below. Please change these addresses according to your system.

Object	Address	Object ID	Detail
Window10			
Bit lamp	LB0	BL_0	Action address
	LW_Bit	BL_1	Error notification
	LW_Bit	BL_2	Time acquisition complete
Numeric	LW4	NE_0	Start time – hour
input			
	LW5	NE_1	Start time – minute
	LW6	NE_2	Start time – second
	LW8	NE_3	End time – hour
	LW9	NE_4	End time – minute
	LW10	NE_5	End time – second
Numeric display	LW9019	ND_0	Local hour
	LW9018	ND_1	Local minute
	LW9017	ND_2	Local second
Toggle	LW_Bit	TS_0~TS_6	Start time – week
switch	300~306		
	LW_Bit	TS_7~TS_13	End time – week
	700~706		
	LW_Bit	TS_14	Update setting
	000		
	LW_Bit 200	TS_15	Enable end time