AVD HOW TO

Use of Data Logger demo application

Data L	.ogged Hy	storical		Schneider
Historical				U Electric [®]
Hystorical Rev.4				
Data Jun15	Hight Default • Lo	ad Data Check All Ur	check All Auto Refresh	is OFF
□ State ♥ AI1 ♥ AI2 ♥ AO □ Humid □ Out 2 □ E5 □ E6 □ 01 □ 02 □ 03	AI3 @ AI4 @ AI5 @ AI6 Heat Comp Fan O 04 08 09 13 19	Set - High T - Low T ut 6 - Out 7 - DI 1 - D 20 - RTC	Max T Min T H I 2 Eco Step E	Ii RH Cow RH C
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File system function overview

For a quick detail information about the **fs_iec library functions** reference to the document: 9IS24237-1_FileSystem_ApplicationNotes_EN_29.07.13.pdf - **Appendix - Library**



Data Logger Demo PLC-Programs



😨 Project 🔄 Definitions 🔚 Resources

Data Logger Demo FB imports

Import also following Functional Block:

- Data record
- Filename definition



FB DataLogger_4_MMXX /12_MMXX



Data Logger Demo Upgrade of Logger V2

To add the data Logger option in your exiting application, add first the highlighted libraries

Project library list	Tagent	X	SOM_TM172P_DemoDataLoggerWeb Extra1	PLL
Name basic FS_IEC logger StrLib	Link c:\program files (x86)\schneider electri C:\Program Files (x86)\Schneider Elect PLL\logger.pll PLL\StrLib.pll	Add Remove Remove all	HMI HI L Download FL PLL PreviousVersions	Name logger.pll StrLib.pll
		UnLink ReLink Close	Use web use web_source	

If You have already import to an existing project a previous release of the data logger demo You have to replace the Logger program with the new one of the **DataLoggerDemo_Rev10.zip**.

Remember to connect the logger data array with your application data and also change the file header string.

Data Logger Demo PLC-Global Variable

Import the Data Logger demo global variables

Project # ×		Name	Type	Address	Group	Array	Init value	Attribute	Description
🖃 🗐 LoggerPLC Project	1	SD_YET_MOUNTED	UINT	Auto	Ungrouped_vars	No	8	CONSTANT	
🖨 🧰 Programs	2	SD_UNSAFE_REMOVED	UINT	Auto	Ungrouped_vars	No	1	CONSTANT	
🗈 🔝 ClockUpdate	3	SD_RUNNING	UINT	Auto	Ungrouped_vars	No	4	CONSTANT	
HMIvalue	4	SD_RETRY	UINT	Auto	Ungrouped_vars	No	7	CONSTANT	
tin El Logger	7	SD_RELEASE_SD	UINT	Auto	Ungrouped_vars	No	6	CONSTANT	
	6	SD_READY_TO_MOUNT	UINT	Auto	Ungrouped_vars	No	2	CONSTANT	
	7	SD_READY	UINT	Auto	Ungrouped_vars	No	3	CONSTANT	
Eurotion blocks	8	SD_NOT_PRESENT	UINT	Auto	Ungrouped_vars	No	0	CONSTANT	
	9	SD_INSERT_SD	UINT	Auto	Ungrouped_vars	No	5	CONSTANT	
Global variables Global shared Global shared Global shared Tasks Global shared Global share									

Project 🗠 🦳

Data Logger Demo PLC-Parameter

PLC Parameter table

To integrate the data logger in Your existing application import all the parameter from the demo application

	Add 🔛	Remove 🛛 📓 Recald	2								
#	Address	Name	Device type	Application type	Size	Default value	Min	Max	Scale	Offset	Unit
1	16384	LogEnable	Boolean	BOOL		False			1	0	
2	16385	LogCycle	Unsigned 16-bit	UINT		60			1	0	Sec
3	16386	LogCycle2	Unsigned 16-bit	UINT		120			1	0	Sec
4	16387	DescriptionData1	String	STRING	12	AI 1			1	0	
5	16394	DescriptionData2	String	STRING	12	AI 2			1	0	
6	16401	DescriptionData3	String	STRING	12	AI 3			1	0	
7	16408	DescriptionData4	String	STRING	12	AI 4			1	0	
8	16415	DescriptionData5	String	STRING	12	AI 5			1	0	
9	16422	DescriptionData6	String	STRING	12	AI 6			1	0	
10	16429	DescriptionData7	String	STRING	12	AI 7			1	0	
11	16436	DescriptionData8	String	STRING	12	AI 8			1	0	
12	16443	DescriptionData9	String	STRING	12	AI 9			1	0	
13	16450	DescriptionData10	String	STRING	12	AI 10			1	0	
14	16457	DescriptionData11	String	STRING	12	AI 11			1	0	
15	16464	DescriptionData12	String	STRING	12	AI 12			1	0	
16	16471	DescriptionEvent1	String	STRING	12	Event 1			1	0	
17	16478	DescriptionEvent2	String	STRING	12	Event 2			1	0	
18	16485	DescriptionEvent3	String	STRING	12	Event 3			1	0	
19	16492	DescriptionEvent4	String	STRING	12	Event 4			1	0	
20	16499	DescriptionEvent5	String	STRING	12	Event 5			1	0	
21	16506	DescriptionEvent6	String	STRING	12	Event 6			1	0	
22	16513	DescriptionEvent7	String	STRING	12	Event 7			1	0	
23	16520	DescriptionEvent8	String	STRING	12	Event 8			1	0	
24	16527	DescriptionEvent9	String	STRING	12	Event 9			1	0	
25	16534	DescriptionEvent10	String	STRING	12	Event 10			1	0	
26	16541	DescriptionEvent11	String	STRING	12	Event 11			1	0	
27	16548	DescriptionEvent12	String	STRING	12	Event 12			1	0	
28	16555	EnableData1	Boolean	BOOL		True			1	0	
29	16556	EnableData2	Boolean	BOOL		True			1	0	
30	16557	EnableData3	Boolean	BOOL		True			1	0	

EEPROM Parameters

Data Logger Demo PLC-Parameter

PLC Parameter table

To integrate the data logger in Your existing application import all the parameter from the demo application

🛃 Add 🔚 Remove 🧾 Recalc

#	Address	Name	Device type	Application type	Size	Default value	Min	Max	Scale	Offset	Unit	
26	16541	DescriptionEvent11	String	STRING	12	Event 11			1	0		
27	16548	DescriptionEvent12	String	STRING	12	Event 12			1	0		
28	16555	EnableData1	Boolean	BOOL		True			1	0		
29	16556	EnableData2	Boolean	BOOL		True			1	0		Enable read
30	16557	EnableData3	Boolean	BOOL		True			1	0		
31	16558	EnableData4	Boolean	BOOL		True			1	0		
32	16559	EnableData5	Boolean	BOOL		True			1	0		
33	16560	EnableData6	Boolean	BOOL		True			1	0		L
34	16561	EnableData7	Boolean	BOOL		True			1	0		Г
35	16562	EnableData8	Boolean	BOOL		False			1	0		
36	16563	EnableData9	Boolean	BOOL		False			1	0		
37	16564	EnableData10	Boolean	BOOL		False			1	0		
38	16565	EnableData11	Boolean	BOOL		False			1	0		
39	16566	EnableData12	Boolean	BOOL		False			1	0		
40	16567	MinValLog1	Signed 16-bit	INT		10			1	0	°C	Min and Max
41	16568	MaxValLog1	Signed 16-bit	INT		90			1	0	°C	
42	16569	MinValLog2	Signed 16-bit	INT		5			1	0	°C	L to records
43	16570	MaxValLog2	Signed 16-bit	INT		40			1	0	°C	
44	16571	MinValLog3	Signed 16-bit	INT		-250			1	0	°C	allarm
45	16572	MaxValLog3	Signed 16-bit	INT		-180			1	0	°C	
46	16573	StartMonth	Unsigned 8-bit	USINT		1	1	12	1	0		Start/End
47	16574	Startyear	Unsigned 8-bit	USINT		15		99	1	0		
48	16575	EndMonth	Unsigned 8-bit	USINT		1	1	12	1	0		date for
49	16576	Endyear	Unsigned 8-bit	USINT		16	Startyear	99	1	0		J USB saving
1												CCD saving

Data Logger Demo PLC-Status Variable

To integrate the data logger in Your existing application import all the Status Variable from the demo application

#	Add	Name	Device type	Applic	Default value	Min	Max	
1	8960	Data1	Signed 16-bit	INT				
2	8961	Data2	Signed 16-bit	INT				
3	8962	Data3	Signed 16-bit	INT				HMI data value
4	8963	Data4	Signed 16-bit	INT				
5	8964	Data5	Signed 16-bit	INT				
6	8965	Data6	Signed 16-bit	INT				
7	8990	SaveUsb	Boolean	BOOL	False			USB utility
8	8992	seconds	Unsigned 8-bit	USINT	0	0	59	
9	8993	minutes	Unsigned 8-bit	USINT	0	0	59	
10	8994	hours	Unsigned 8-bit	USINT	0	0	23	
11	8995	dayweek	Unsigned 8-bit	USINT	0	0	6	PTC Upgrada valua
12	8996	daymonth	Unsigned 8-bit	USINT	1	1	31	
13	8997	month	Unsigned 8-bit	USINT	1	1	12	
14	8998	year	Unsigned 8-bit	USINT	12	0	99	
15	8999	sysclockupdate	ClockEnum	USINT	Current Clock			
16	9021	UsbStatus	Unsigned 8-bit	USINT				
17	9022	SavingInProgress	Boolean	BOOL	False			
18	9023	SaveOk	Unsigned 16-bit	UINT				
19	9024	SaveFailed	Unsigned 16-bit	UINT				
20	9025	SavePercent	Unsigned 16-bit	UINT				
21	9026	SavingAllowed	Boolean	BOOL	False			
22	9027	LoggingError	Boolean	BOOL	False			
23	8966	FileDimension	Unsigned 32-bit	UDINT				Log info
24	8968	TotalRecordE2retain	Unsigned 32-bit	UDINT				-

Data Logger demo application HMI



Data Logger Demo HMI-Form main



Data Logger Demo HMI-Form Settings

Settings Form Options: Log settings, USB export, RTC and microSD



Data Logger Demo HMI-Form Logger



Data Logger Demo HMI-Form Download USB



Data Logger Demo HMI-Form Update Clock



Data Logger Demo HMI-MicroSD manager

This form will be automatically show in case of plug in/out of the microSD.

Data Logger demo Web Server

Data Logger Demo WEB

Data Log Files	Logged Files	Hystorical	Schneider Gelectric
	Ev	olution Data Logger	
File name		Size [byte]	
APR15.CSV		17150	
FEB15.CSV		1157	
HEADER.CSV		192	
JAN15.CSV		3279	
JUN15.CSV		212248	
APR14.CSV		1157	
MAR15.CSV		6683	
MAY15.CSV		111848	
DEC14.CSV		1157	
FEB14.CSV		1157	
JAN14.CSV		1157	
AUG15.CSV		434	

Click to download the logged file

Data Logger Demo WEB Zoom

Data Logger integration to existing application

Copy the selected file from the "web_source" folder of the demo project to the existing Web application

Demo Logger

Existing application

Data Logger integration to existing application

- 1), 2) Import the custom pages "FILES.CGI" and "history.htm"
- 3) Select the file from the folder "web_source".
- 4) Build the web site. And download it from Device.

1)	2)	3)
 Modbus objects EEPROM Parameters Status variables Enums BIOS Parameters Menus 	 Modbus objects EEPROM Parameters Status variables Enums BIOS Parameters Menus 	Logged Files'
□·畤 I/O Mapping ──畤 Local	□ 时 I/O Mapping 时 Local	4)
Alarms Add Table Page Import Custom Page	- ▲ Alarms - ▲ Web Site - ● Home - ▲ Page1	Developer Help Build Configuration Export application to catalog Open with Device The standard state of the state
Add Template Page	Page2 Logged File History	Generate EDE files 'History' Web custom page
Glendar Objects Calendar Objects	Analog Value Objects	

Data Logger integration to existing application

Copy from an automatically generate page like Index.html the navigation menu structure into the two custom page "FILES.CGI" and "history.htm"

Thanks

Schneider Gelectric