

VARIABLES

VAR_GLOBAL CONSTANT

SPY_ASCII : USINT := 1; (* Ascii mode *)

SPY_BINARY : USINT := 100; (* Binary mode *)

SPY_ASCHEX : USINT := 10; (* Extended ascii mode *)

END_VAR

	Project : SDReplacement	
	VARIABLES :	
	Release : Vigneto	Ver :1.00
	Author :	Date:14/04/2014
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```
VAR
Fp : ARRAY[ 0..1 ] OF FILEP; (* File pointer *)
ABf : BOOL; (* Auxiliary buffer *)
Sm : SYSSERIALMODE; (* Serial mode *)
MMdb : ModbusMaster; (* Modbus master communication *)
MdbRegs : ARRAY[ 0..7 ] OF UINT; (* Modbus registers *)
END_VAR
```

```
1 (* ***** *)
2 (* PROGRAM "MasterModbus" *)
3 (* ***** *)
4 (* Questo programma gestisce la comunicazione modbus con i vari slaves. *)
5 (* ----- *)
6 (* Eseguo inizializzazioni. *)
7
8   IF (SysFirstLoop) THEN
9
10      (* Apro ed inizializzo porta seriale. *)
11
12      Fp[0]:=Sysfopen('COM0', 'rw'); (* File pointer *)
13      ABf:=SysGetSerialMode(ADR(Sm), Fp[0]); (* Auxiliary buffer *)
14      Sm.Baudrate:=19200; (* Baud rate *)
15      Sm.Parity:='E'; (* Parity *)
16      Sm.DataBits:=8; (* Data bits *)
17      Sm.DTRManagement:=DTR_AUTO_WO_TIMES; (* DTR management *)
18      ABf:=SysSetSerialMode(ADR(Sm), Fp[0]); (* Auxiliary buffer *)
19
20      (* Inizializzo FB comunicazione modbus. *)
21
22      MMdb.Type:=0; (* Modbus type *)
23      MMdb.File:=Fp[0]; (* File pointer *)
24      MMdb.IFTime:=3430; (* Tempo tra frames *)
25      MMdb.Timeout:=100; (* Communication timeout *)
26      MMdb.Delay:=1000; (* Communication delay *)
27
28      MMdb.Address:=1; (* Variable address *)
29      MMdb.Buffer:=ADR(MdbRegs); (* Buffer address *)
30      MMdb.Points:=SIZEOF(MdbRegs)/2; (* Number of points *)
31      MMdb.Node:=16; (* Modbus node *)
32      MMdb.FCode:=16#04; (* Modbus function *)
33  END_IF;
34
35  (* ----- *)
36  (* GESTIONE COMUNICAZIONE MODBUS *)
37  (* ----- *)
38  (* Gestione comunicazione modbus. *)
39
40  MMdb(); (* Modbus master communication *)
41  MMdb.Enable:=NOT(MMdb.Done); (* FB enable *)
42
43  (* [End of file] *)
44
45
```

Project : SDReplacement

PROGRAM : MdbCommunication

Release : Vigneto

Ver :1.00

Author :

Date:14/04/2014

Note :

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(SFR054B220) Manages the modbus master communication
ENCRYPTED CODE

```
VAR_INPUT
Enable : BOOL;
SpyOn : BOOL; (* Spy active *)
File : FILEP; (* Terminal I/O pointer *)
Type : USINT; (* Modbus type *)
Node : USINT; (* Node number *)
FCode : USINT; (* Function code *)
Address : UINT; (* Start address *)
Points : UDINT; (* Number of points *)
Buffer : @USINT; (* Address of data buffer *)
IFTime : UDINT; (* Interframe time (uS) *)
Timeout : UINT; (* Timeout time (mS) *)
Delay : UINT; (* Delay time (mS) *)
END_VAR

VAR_OUTPUT
Done : BOOL; (* Command done *)
Ok : BOOL := FALSE; (* Execution Ok *)
Fault : BOOL; (* Command fault *)
Errors : UDINT; (* Error counter *)
END_VAR
```

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	Project : SDReplacement	
	FUNCTION BLOCK : ModbusMaster	
	Release : Vigneto	Ver :1.00
	Author :	Date:14/04/2014
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FUNCTION SysSpyData

VAR_INPUT

Mode : USINT; (* Spy mode *)
 TFlags : UDINT; (* Trigger flags pattern *)
 Label : @USINT; (* Spy record label *)
 DPtr : @USINT; (* Pointer to data to spy *)
 END_VAR

```

1 (* ***** *)
2 (* FUNCTION "BOOL SysSpyData(Mode, TFlags, Label, DPtr)" *)
3 (* ***** *)
4 (* "SysSpyData" embedded function replacement. *)
5 (* ----- *)
6   (* Always return "TRUE". *)
7
8   SysSpyData:=TRUE; (* Function result *)
9
10 (* [End of file] *)
11
12

```

	Project : SDReplacement	
	FUNCTION : SysSpyData	
	Release : Vigneto	Ver :1.00
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