

VARIABLES

VAR_GLOBAL

SlaveDI AT %MX100.0 : ARRAY[0..1] OF BOOL; (* Digital inputs from slave *)

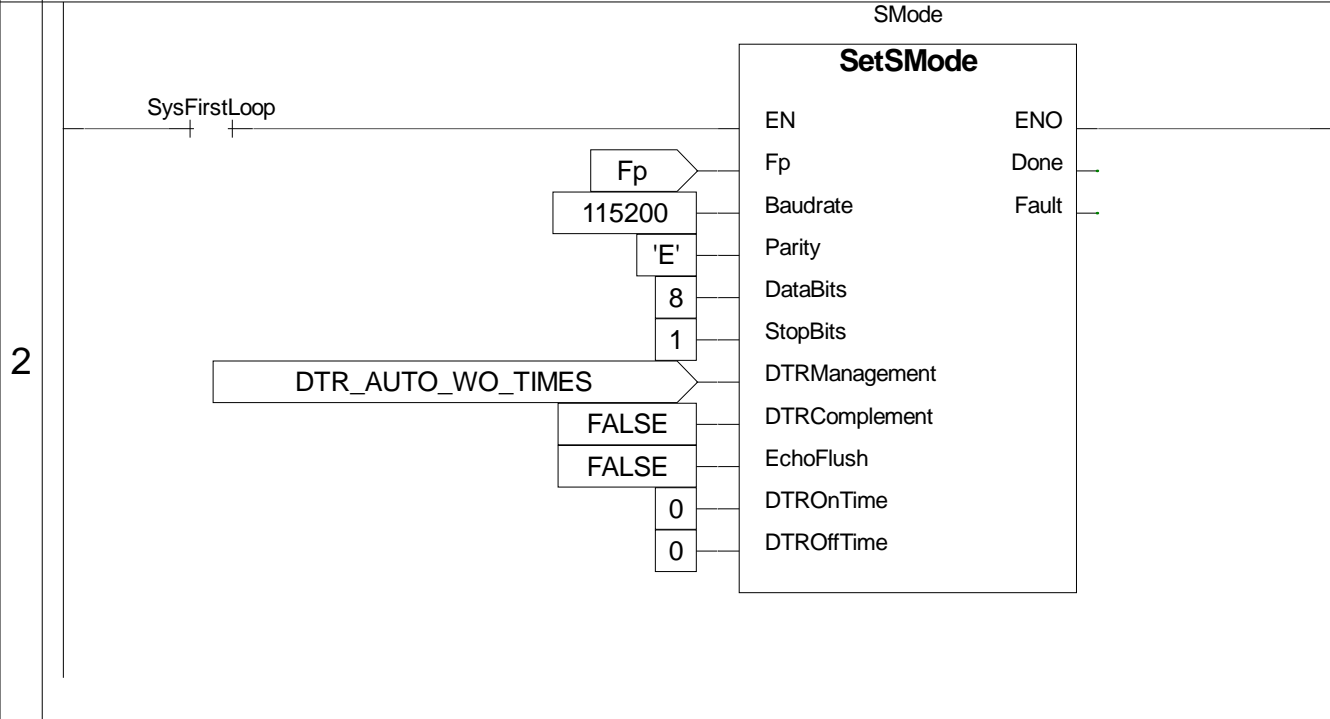
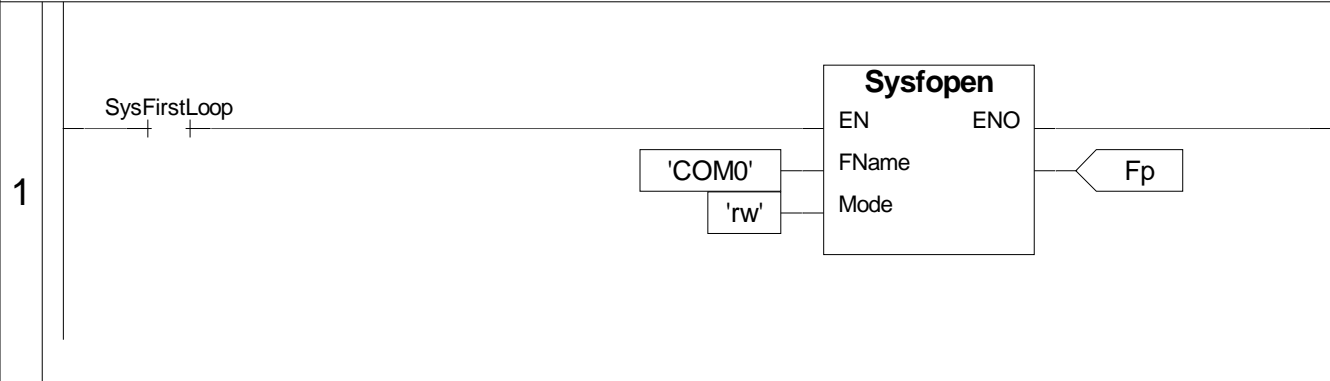
SlaveDO AT %MX100.16 : ARRAY[0..1] OF BOOL; (* Digital outputs to slave *)

END_VAR

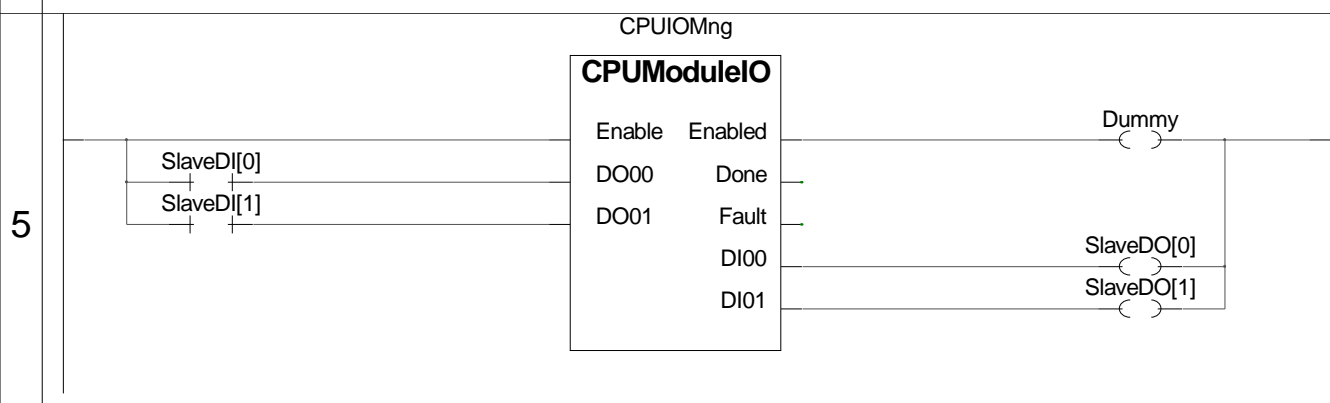
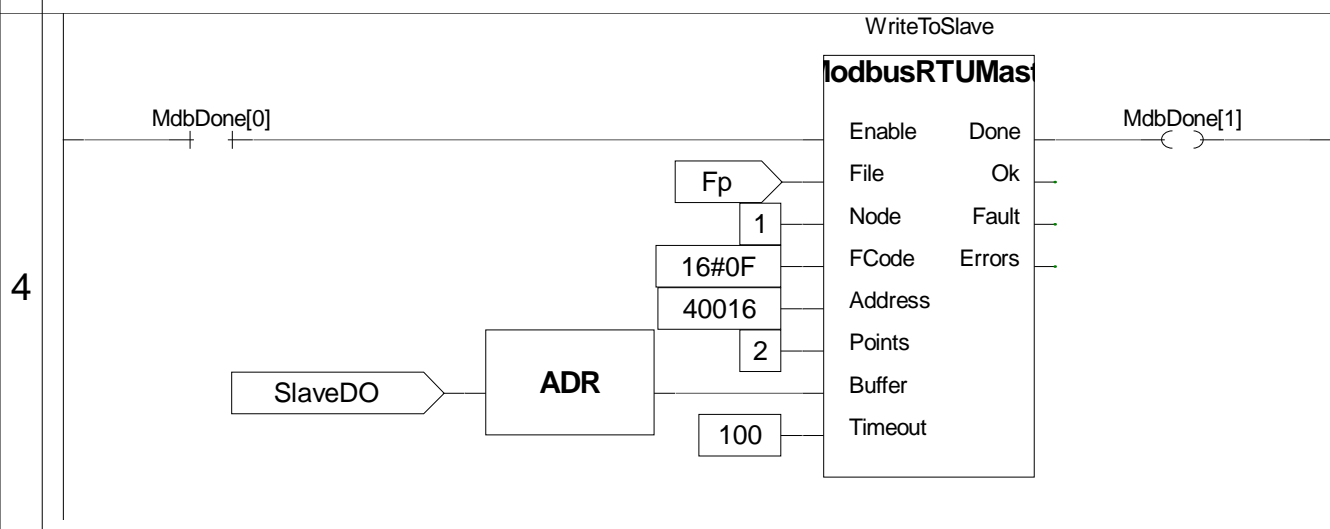
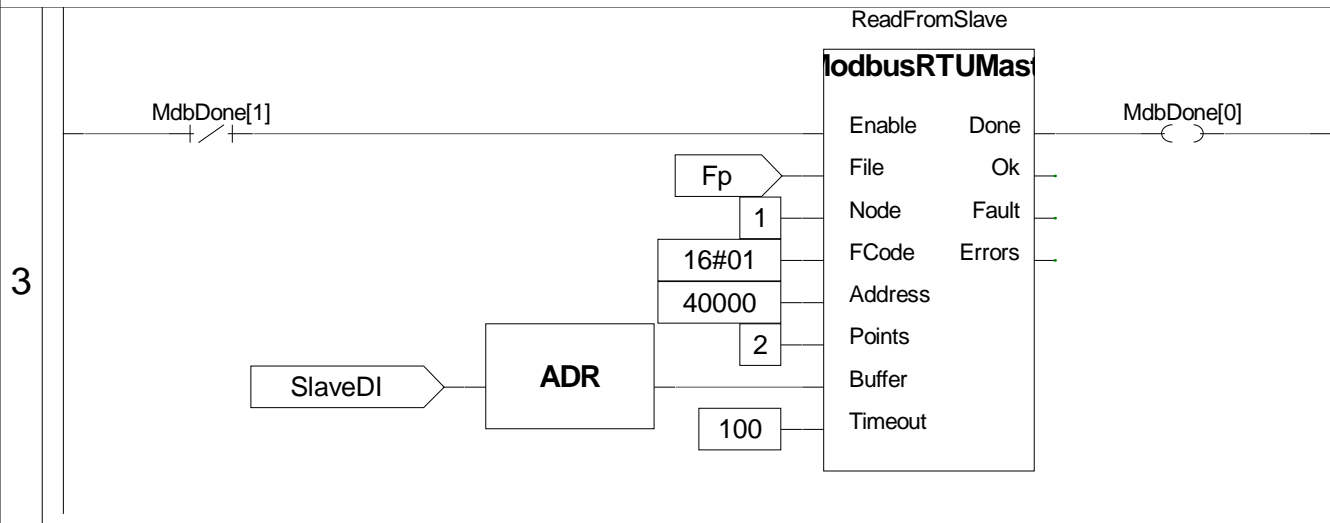
	Project : Master	
	VARIABLES :	
	Release : Master	Ver :1.00
	Author :	Date:25/01/2012
	Note :	Page:1 of 1

```

VAR
Fp : FILEP; (* File pointer *)
CPUIOMng : CPUModuleIO; (* CPU I/O management *)
MdbDone : ARRAY[ 0..1 ] OF BOOL; (* Modbus master done *)
SMode : SetSMode; (* FB set serial mode *)
ReadFromSlave : sModbusRTUMaster; (* FB modbus read DI from slave *)
Dummy : BOOL; (* Dummy variable *)
WriteToSlave : sModbusRTUMaster; (* FB modbus write DO to slave *)
END_VAR
    
```



Project : Master	
PROGRAM : DataTransfer	
Release : Master	Ver :1.00
Author :	Date:25/01/2012
Note :	Page:1 of 2



Project : Master	
PROGRAM : DataTransfer	
Release : Master	Ver :1.00
Author :	Date:25/01/2012
Note :	Page:2 of 2

FUNCTION_BLOCK CPUModuleIO

Manages the logic I/O on the CPU module
ENCRYPTED CODE

```
VAR_INPUT
Enable : BOOL; (* Function enable *)
DO00 : BOOL; (* Digital output 0 *)
DO01 : BOOL; (* Digital output 1 *)
END_VAR

VAR_OUTPUT
Enabled : BOOL; (* Function enabled *)
Done : BOOL; (* Function done *)
Fault : BOOL; (* Function fault *)
DI00 : BOOL; (* Digital input 0 *)
DI01 : BOOL; (* Digital input 0 *)
END_VAR
```

1

Project : Master	
FUNCTION BLOCK : CPUModuleIO	
Release : Master	Ver :1.00
Author :	Date:25/01/2012
Note :	Page:1 of 1

Set the serial communication mode
 ENCRYPTED CODE

```

VAR_INPUT
Fp : FILEP;
Baudrate : UDINT; (* Baudrate *)
Parity : STRING[ 1 ]; (* Parity type *)
DataBits : USINT; (* Nr of data bits *)
StopBits : USINT; (* Nr of stop bits *)
DTRManagement : USINT; (* DTR management type *)
DTRComplement : BOOL; (* Complement the DTR signal *)
EchoFlush : BOOL; (* Flush the echo *)
DTROnTime : UINT; (* DTR On wait time *)
DTROffTime : UINT; (* DTR Off wait time *)
END_VAR
    
```

```

VAR_OUTPUT
Done : BOOL; (* Execution done *)
Fault : BOOL; (* Execution fault *)
END_VAR
    
```

1

Project : Master	
FUNCTION BLOCK : SetsMode	
Release : Master	Ver :1.00
Author :	Date:25/01/2012
Note :	Page:1 of 1

Manages the modbus RTU master communication
ENCRYPTED CODE

```
VAR_INPUT
Enable : BOOL;
File : FILEP; (* Terminal I/O pointer *)
Node : USINT; (* Node number *)
FCode : USINT; (* Function code *)
Address : UINT; (* Start address *)
Points : USINT; (* Number of points *)
Buffer : @USINT; (* Address of data buffer *)
Timeout : UINT; (* Timeout 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
```

1

	Project : Master	
	FUNCTION BLOCK : sModbusRTUMaster	
Release : Master		Ver :1.00
Author :		Date:25/01/2012
Note :		Page:1 of 1