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VAR
TCPClient : SysTCPClient; (* TCP client *)
MMdb : ModbusMaster; (* Modbus master *)
MIDx : BOOL; (* Modbus index *)
MdbRd : ARRAY[ 0..15 ] OF WORD; (* Read buffer *)
MdbWr : ARRAY[ 0..15 ] OF WORD; (* Write buffer *)
END_VAR

```

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1 (* ***** *)
2 (* PROGRAM "ModbusMaster" *)
3 (* ***** *)
4 (* Gestione protocollo Modbus master. *)
5 (* ----- *)
6
7 (* ----- *)
8 (* INITIALIZATION *)
9 (* ----- *)
10 (* Program initialization. *)
11
12 IF (SysFirstLoop) THEN
13
14     (* TCP client initialization. *)
15
16     TCPClient.PeerAdd:=ADR('192.168.0.184'); (* Peer address *)
17     TCPClient.PeerPort:=502; (* Peer port *)
18     TCPClient.LocalAdd:=ADR('0.0.0.0'); (* Local address *)
19     TCPClient.LocalPort:=0; (* Local port *)
20     TCPClient.FlushTm:=50; (* Flush time (mS) *)
21     TCPClient.LifeTm:=20; (* Life time (S) *)
22     TCPClient.RxSize:=256; (* Rx buffer size *)
23     TCPClient.TxSize:=256; (* Tx buffer size *)
24
25     (* Modbus master initialization. *)
26
27     MMdb.Type:=2; (* Modbus type *)
28     MMdb.Node:=1; (* Modbus node *)
29     MMdb.IFTime:=0; (* Tempo tra frames *)
30     MMdb.Timeout:=1000; (* Communication timeout *)
31     MMdb.Delay:=1000; (* Communication delay *)
32 END_IF;
33
34 (* ----- *)
35 (* MODBUS MASTER *)
36 (* ----- *)
37 (* Manage the TCP client. *)
38
39 TCPClient(Connect:=TRUE); (* TCPClient management *)
40 MMdb.File:=TCPClient.File; (* File pointer *)
41
42 (* At every modbus command execution done, change the next command so *)
43 (* it's possible to read and write words to other system. *)
44
45 IF (MMdb.Done) THEN
46     MMdb.Enable:=FALSE; (* FB enable *)
47     MIDx:=NOT(MIDx); (* Modbus index *)
48
49     IF NOT(MIDx) THEN

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PROGRAM : ModbusMng	
Release : Xtarget	Ver :1.00
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PROGRAM ModbusMng

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50         MMdb.FCode:=16#03; (* Modbus function *)
51         MMdb.Buffer:=ADR(MdbRd); (* Buffer address *)
52         MMdb.Points:=SIZEOF(MdbRd)/2; (* Number of points *)
53         MMdb.Address:=40000; (* Slave buffer address *)
54     ELSE
55         MMdb.FCode:=16#10; (* Modbus function *)
56         MMdb.Buffer:=ADR(MdbWr); (* Buffer address *)
57         MMdb.Points:=SIZEOF(MdbWr)/2; (* Number of points *)
58         MMdb.Address:=40016; (* Slave buffer address *)
59     END_IF;
60 END_IF;
61
62 (* Modbus communication. *)
63
64 MMdb(); (* Modbus master communication *)
65 MMdb.Enable:=TCPClient.Connected; (* Modbus enable *)
66
67 (* [End of file] *)
68

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