```
PROGRAM TestModbus
VAR
    i : UDINT; (* Aux counter *)
    TCPClient : SysTCPClient; (* TCP client management *)
    MMdb : ModbusMaster_v3; (* Modbus master FB *)
    RHRegs : ARRAY[0..13] OF WORD; (* Holding registers (Read) *)
END_VAR

// ********************************************************************************
// PROGRAM "TestModbus"
// ********************************************************************************
// Test Modbus TCP.
// --------------------------------------------------------------------------------

    // --------------------------------------------------------------------------
    // INITIALIZATION
    // --------------------------------------------------------------------------
    // Program initializations.

    IF (SysFirstLoop) THEN
        TCPClient.PeerAdd:=ADR('192.168.1.55'); //Peer address
        TCPClient.PeerPort:=502; //Peer port
        TCPClient.LocalAdd:=ADR('0.0.0.0'); //Local address
        TCPClient.LocalPort:=0; //Local port
        TCPClient.FlushTm:=50; //Flush time (mS)
        TCPClient.LifeTm:=20; //Life time (S)
        TCPClient.RxSize:=128; //Rx buffer size
        TCPClient.TxSize:=128; //Tx buffer size

        // Modbus master settings.

        MMdb.SpyOn:=TRUE; //Spy On
        MMdb.Absolute:=TRUE; //Absolute addressing
        MMdb.Node:=1; //Node number
        MMdb.Type:=MODBUS_PROTOCOL#MDB_TCP; //Modbus protocol type
        MMdb.Timeout:=T#1s; //Timeout time
        MMdb.Delay:=T#100ms; //Delay time
    END_IF;

    // --------------------------------------------------------------------------
    // MODBUS MANAGEMENT
    // --------------------------------------------------------------------------
    // TCP client management.

    TCPClient(Connect:=TRUE); //TCPClient management
    IF NOT(SysFIsOpen(MMdb.File)) THEN MMdb.Enable:=FALSE; END_IF;
    MMdb(File:=TCPClient.File); //Modbus master

    // Define the modbus parameters.

    MMdb.Enable:=TRUE; //Modbus enable
    MMdb.FCode:=16#03; //Modbus function code
    MMdb.Address:=40000; //Modbus register address
    MMdb.Points:=SIZEOF(RHRegs)/2; //Modbus register points
    MMdb.Buffer:=ADR(RHRegs); //Memory buffer address
    IF NOT(MMdb.Done) THEN RETURN; END_IF;
    MMdb.Enable:=FALSE; //Modbus enable

// [End of file]
```