

# Host Modbus API

Modbus Master API is implemented in myCNC software.

Host computer with myCNC able to read **Input registers** and write data **Holding registers** from/to modbus Slave device.

User API is available through the Software PLC.

Register Name	Address	Description
GVAR_XMODBUS_SERVER_ADDR	5750	Writing to this register sets <b>Modbus Server Address</b>
GVAR_XMODBUS_VALUE	5751	Writing to this register sets a <b>Value</b> that will be sent while <b>write to Modbus Server</b>
GVAR_XMODBUS_ADDR2READ	5752	Writing to this Register sets <b>Address of Global register</b> to put a result of <b>Modbus Read</b> operation
GVAR_XMODBUS_READY_READ	5753	Ready Read flag. The value is automatically cleared ion start of Modbus read operation. If Read is finished successfully, the value is set to "1". If Read operation is failed, the value is set to "-1".
GVAR_XMODBUS_WRITE	5755	Writing to this register initiates Modbus Write operation. Written value is Modbus Server Register address (for Write). A value defined in register 5751 will be sent
GVAR_XMODBUS_READ	5756	Writing to this register initiates Modbus Read operation. Written value is a Modbus Server Register address (for Read). Writing to this register will clear READY_READ register (5753). The READ_READY register value will be set to "1" when Read completed successfully. The READ_READY register will be set to "-1" if Read Error happens

Example:

- Need to write a value of "999" to Modbus Server with Address #7 to register #25,
- then read register #24 and save it in global variable register #500

```
//Write
gvarset(5750,7); //Set Modbus Server Address
gvarset(5751,99); //Set a value to write
gvarset(5755,25); //Write to Modbus regsiter #25

//Read
gvarset(5752,500); //Set Register #500 to receive Modbus Read result
gvarset(5756,24); //Read Modbus register #24

do
{
    //wait ready_ready
    timer++;
}while(gvarget(5753)==0);
```

```
if (gvarget(5753)<0)
{
    exit(99); //Modbus Ready Error
};

a=gvarget(500); //Read modbus result can be used by reading redister #500
```

From:

<http://docs.pv-automation.com/> - **myCNC Online Documentation**

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