

Classification	Win-GRAF English FAQ-014						
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## How to Disable/Enable the Modbus RTU/ASCII (or TCP/UDP) Master Port in the Program?

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The user can refer the FAQ-009 and FAQ-011 to know how to set the Win-GRAF PAC as the Modbus RTU/ASCII (or TCP/UDP) Master.

### 1.1. To Disable/Enable the Modbus RTU/ASCII Master Port

Modbus RTU/ASCII Master ports that enabled in the Win-GRAF "Fieldbus Configuration" - "IO Drivers" setting window, will automatically work after the PAC is powered on. If the user wants to disable one of the Modbus Master ports, use the "**MBRTU\_M\_disable**" function (see below).

```
(* Declare To_disable as BOOL *)
If To_disable then
  To_disable := FALSE ;
  MBRTU_M_disable (3) ;
End_if;
```

In the above code, if you set "To\_disable" as "TRUE", it will disable the Modbus RTU/ASCII Master port - COM3. Moreover, you can enable it again by using the "**MBRTU\_M\_enable**" function (see below).

```
(* Declare To_enable as BOOL
  Declare Status_com3 as BOOL *)
If To_enable then
  To_enable := FALSE ;
  MBRTU_M_enable (3) ;
End_if;
Status_com3 := MBRTU_M_status (3) ;
```

The "**MBRTU\_M\_status**" function is used to get the status of the Modbus RTU/ASCII Master port, for example, enabled (True) or disabled (False).

Classification	Win-GRAF English FAQ-014						
Author	Spike Huang	Version	1.0.0	Date	Feb. 2016	Page	2 / 2

## 1.2. To Disable/Enable the Modbus TCP/UDP Master Port

The Modbus TCP/UDP Master ports that are enabled in the Win-GRAF "Fieldbus Configuration" - "IO Drivers" setting window, will automatically work after the PAC is powered on. If the user wants to disable one of the Modbus TCP Master ports, use the "**MBTCP\_M\_disable**" function (and use the "**MBUDP\_M\_disable**" function for UDP), see below:

```
(* Declare To_disable as BOOL *)
If To_disable then
  To_disable := FALSE ;
  MBTCP_M_disable ( '192.168.71.9' , 502 ) ;
End_if;
```

In the above code, if you set "To\_disable" as "TRUE", it will disable the Modbus TCP Master port which connects to the slave device with the IP address "192.168.71.9" (TCP Port\_No = 502). Moreover, you can enable it again by using the "**MBTCP\_M\_enable**" function (using the "**MBUDP\_M\_enable**" function for UDP), see below:

```
(* Declare To_enable as BOOL
  Status_tcp as BOOL *)
If To_enable then
  To_enable := FALSE ;
  MBTCP_M_enable ( '192.168.71.9' , 502 ) ;
End_if;
Status_tcp := MBTCP_M_status ( '192.168.71.9' , 502 ) ;
```

The "**MBTCP\_M\_status**" function (and "**MBUDP\_M\_status**" is for UDP) listed above is used to get the status of the Modbus TCP Master port, for example, enabled (True) or disabled (False).

For easy maintenance, the user can declare a STRING variable (set its length as "20"). For example, declare one "IP\_addr2" variable and set its initial value as "192.168.71.9". Then you can use it as the following code.

```
If To_disable then
  To_disable := FALSE ;
  MBTCP_M_disable ( IP_addr2 , 502 ) ;
End_if;
Status_tcp2 := MBTCP_M_status ( IP_addr2 , 502 ) ;
```