

Connecting to a WAGO Controller via Modbus (TCP)

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Hardware

- 1x WAGO fieldbus coupler 750-352/000-001
- 1x digital input terminal 750-401
- 1x digital output terminal 750-504
- 1x end terminal 750-600

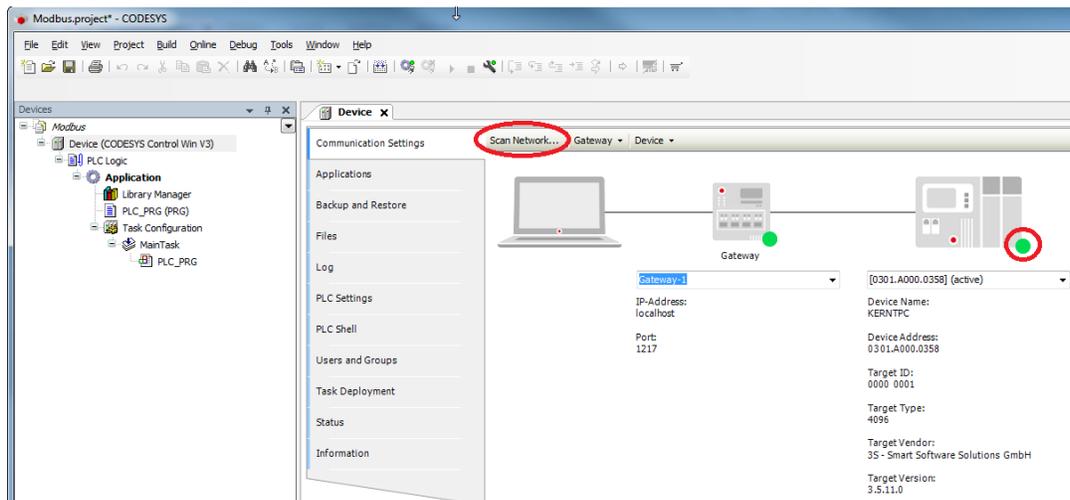
Requirements for the WAGO controller

- Assign the IP address (for example with the tool [WAGO Ethernet Settings](#)).
- Activate Modbus protocol (TCP) (for example with the tool [WAGO Ethernet Settings Protocol](#)).
- Get the manual for the fieldbus coupler.

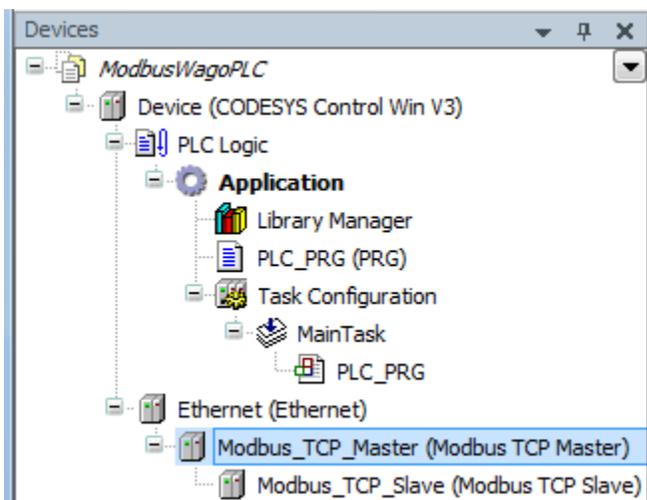
Requirements for CODESYS

- Create a standard project and define your device (for example [CODESYS Control Win V3](#)).

Scan the network and select the device.



- In the device tree, add an [Ethernet adapter](#), a [Modbus_TCP_Master](#), and a [Modbus_TCP_Slave](#).

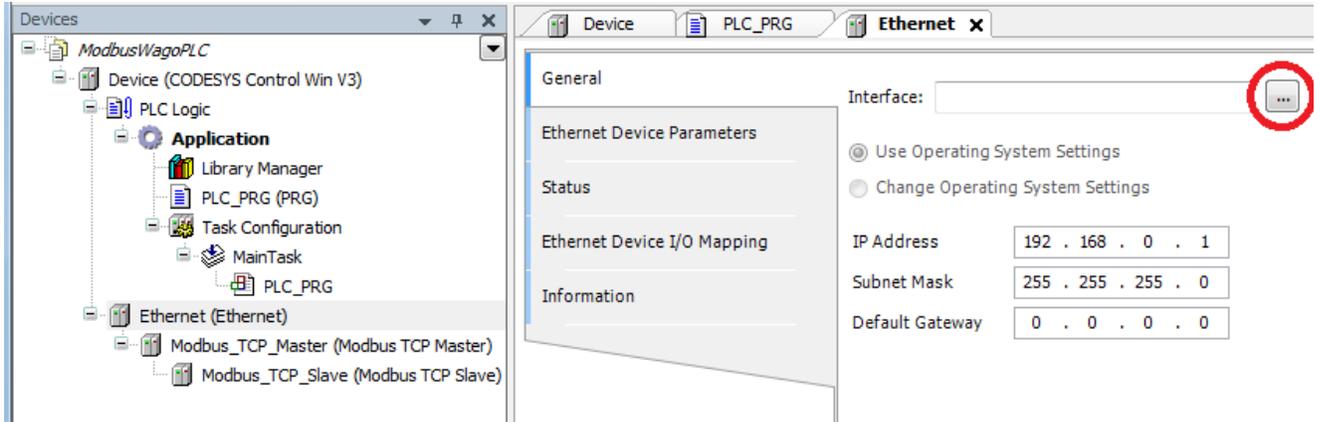


Settings on the Ethernet adapter

- **Tab General**

Define the network interface to be used.

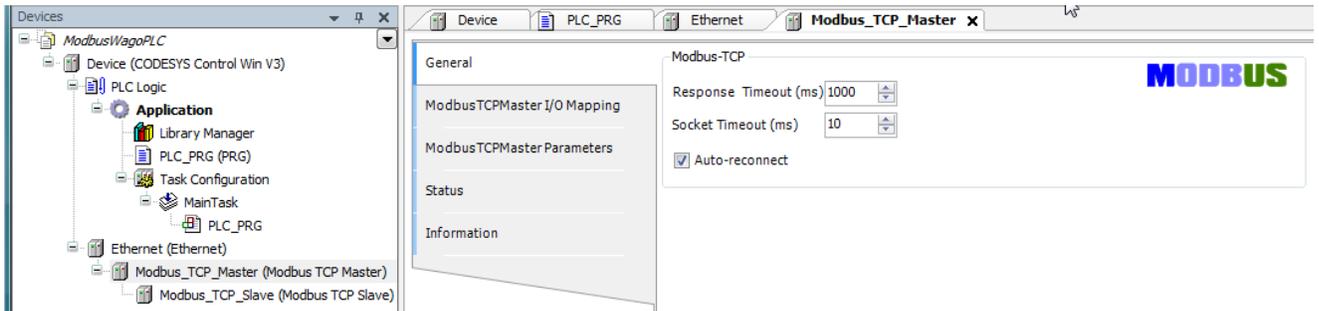
 If a target system is not defined yet, then the error message "Gateway not configured" is displayed.



Settings on Modbus_TCP_Master

- **Tab General**

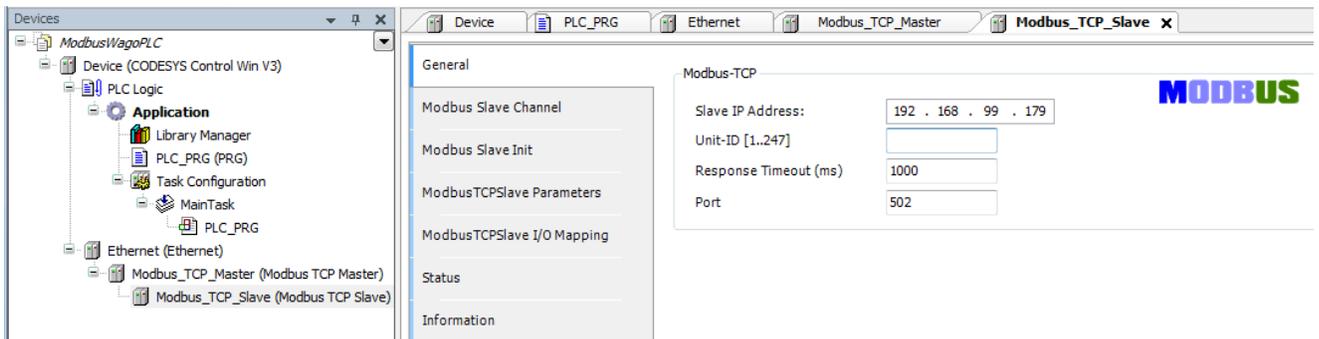
Activate the automatic establishment of a connection after interruption.



Settings on Modbus_TCP_Slave

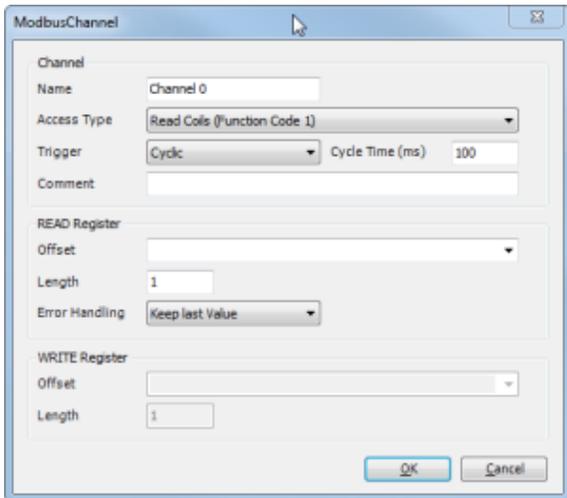
- **Tab General**

Specify the *IP address* of the WAGO controller and leave the *Unit ID* blank.
For Modbus via TCP/IP, the slave is identified by means of the IP address.

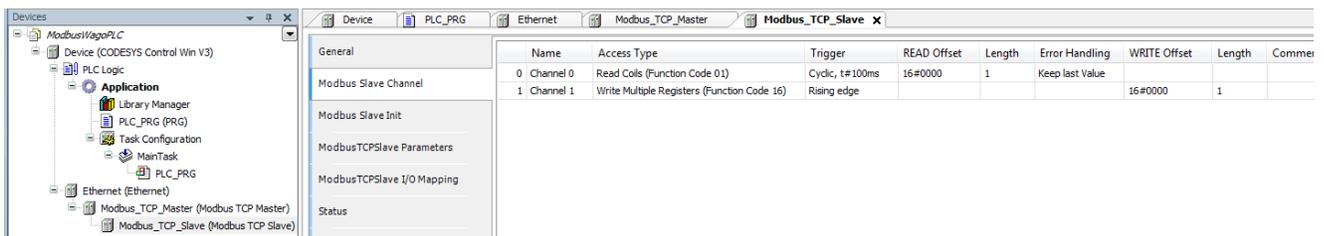
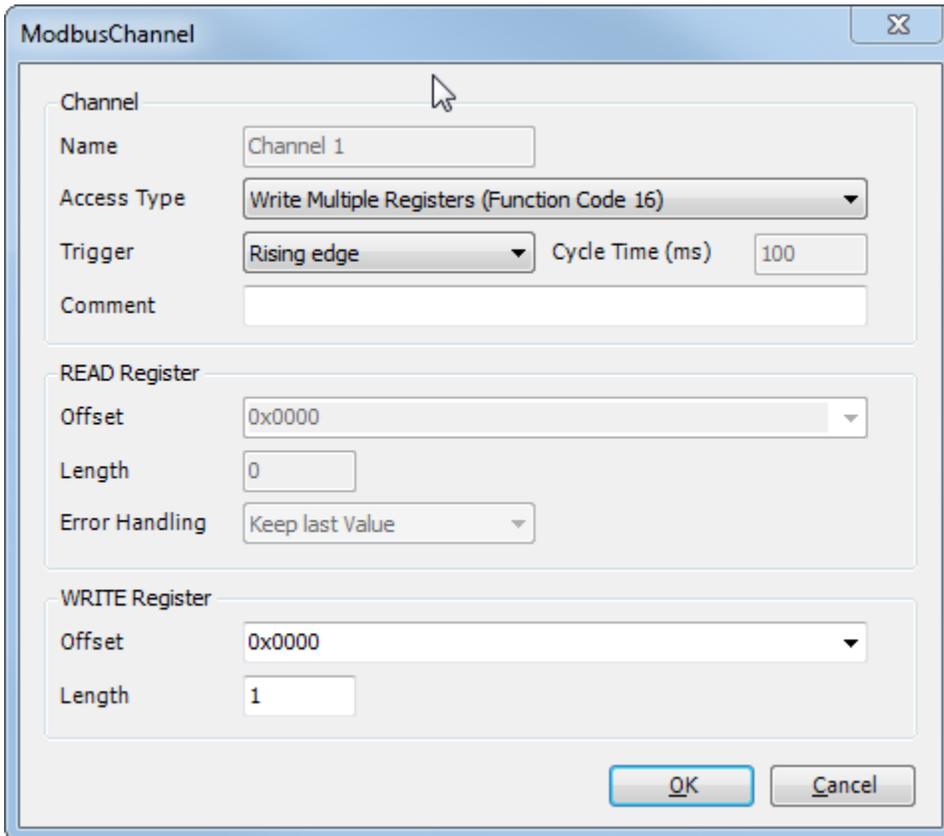


- **Tab *Modbus Slave Channel***

Create a channel for reading the input adapter:

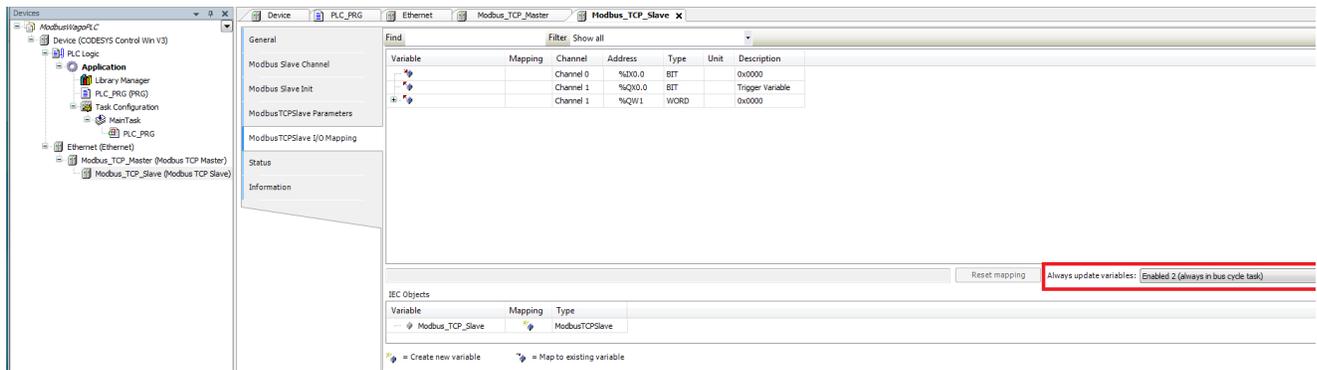


Create a channel for switching the contacts of the output adapter:



- Tab **Modbus TCP Slave I/O Mapping**

So that the Modbus addresses are updated even without variable mapping, you have to activate this explicitly:



Download the project to the controller and start it

