SIEMENS

LOGO! ..0BA7 in master/slave operation

Preparing basic devices

Set at the LOGO! basic devices you are using the required addresses (IP address and subnet mask) as well as the operating mode (master or slave). This example uses two LOGO! basic devices of which one functions as master and the other as slave.
First set the addresses and the mode in the slave device. Select the item "Network; IP address" in the menu.
Once you have assigned the addresses, specify the operating mode. Select "Network; Specify mode" to select "Slave" as operating mode. Then you enter the IP address of the master device. The device is ready for operation after a restart.
You now have to configure the basic device that you want to operate as master. Assign the addresses for the master device.
Select "Normal" as mode for the device. The device is ready for operation after a restart and the preparations on the basic devices are complete.

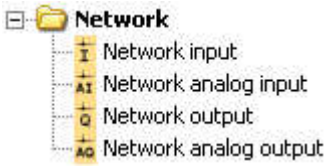
Note:
The Ethernet adapter of the PC must be set so that it can communicate with the controllers. This means the IP addresses and the subnet masks must be assigned so that all devices are located in the same network.

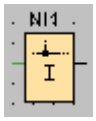
The following IP addresses and subnet masks are used in the example:

	IP address	Subnet mask
Master	172.16.202.14	255.255.255.0
Slave	172.16.202.2	255.255.255.0
PC/PG	172.16.202.20	255.255.255.0

Creating a program

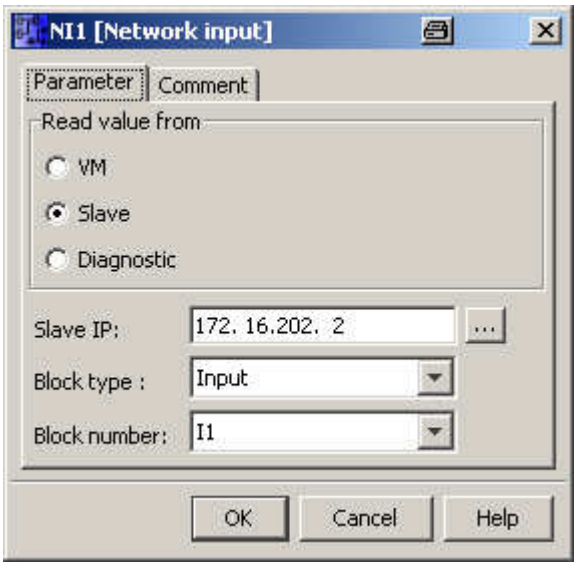
You can now create the program. To use inputs or outputs (analog or digital) from the basic device that you defined as slave in the program, select the functions under Network.



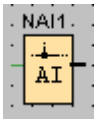


Digital network input

If a digital input of the slave is required, select the function "Network input".

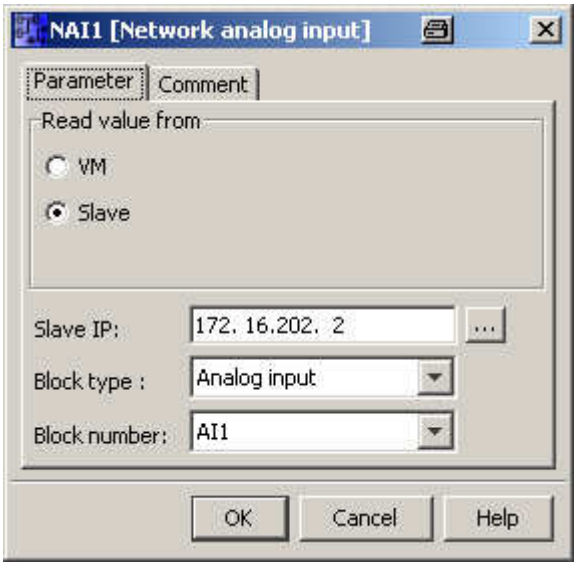


Place the block in your control program and open the properties. Now set that the data of a slave are to be read in, assign the respective IP address, the block type and the block number.

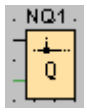


Analog network input

If an analog input of the slave is required, select the function "Analog network input".



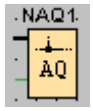
Place the block in your control program and open the properties. Now set that the data of a slave are to be read in, assign the respective IP address, the block type and the block number.



Digital network output

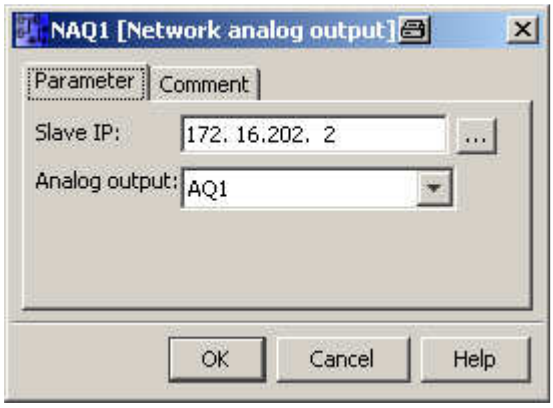
If a digital output of the slave is to be addressed, select the function "Network output".

Place the block in your control program and open the properties. Now enter the IP address of the device and the output which is to be controlled.



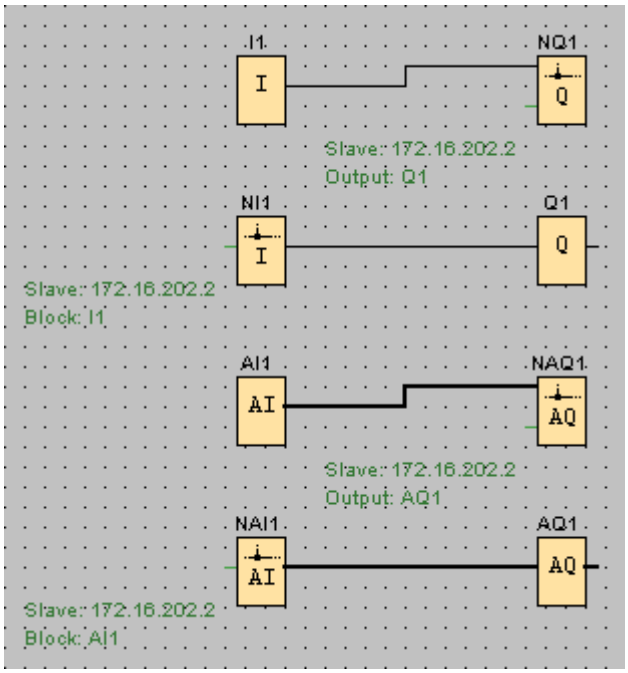
Analog network output

If an analog output of the slave is to be addressed, select the function "Network output".



Place the block in your control program and open the properties. Now enter the IP address of the device and the output which is to be controlled.

Wiring example



- The wiring example shows a simple program in which the input I1 of the master device addresses the output Q1 of the slave device.
- The input I1 of the slave device controls the output Q1 of the master.
- In the third line, the analog output AQ1 of the slave is controlled by the analog input AI1 of the master.
- In line four, the AI1 of the slave device controls the AQ1 of the master device.