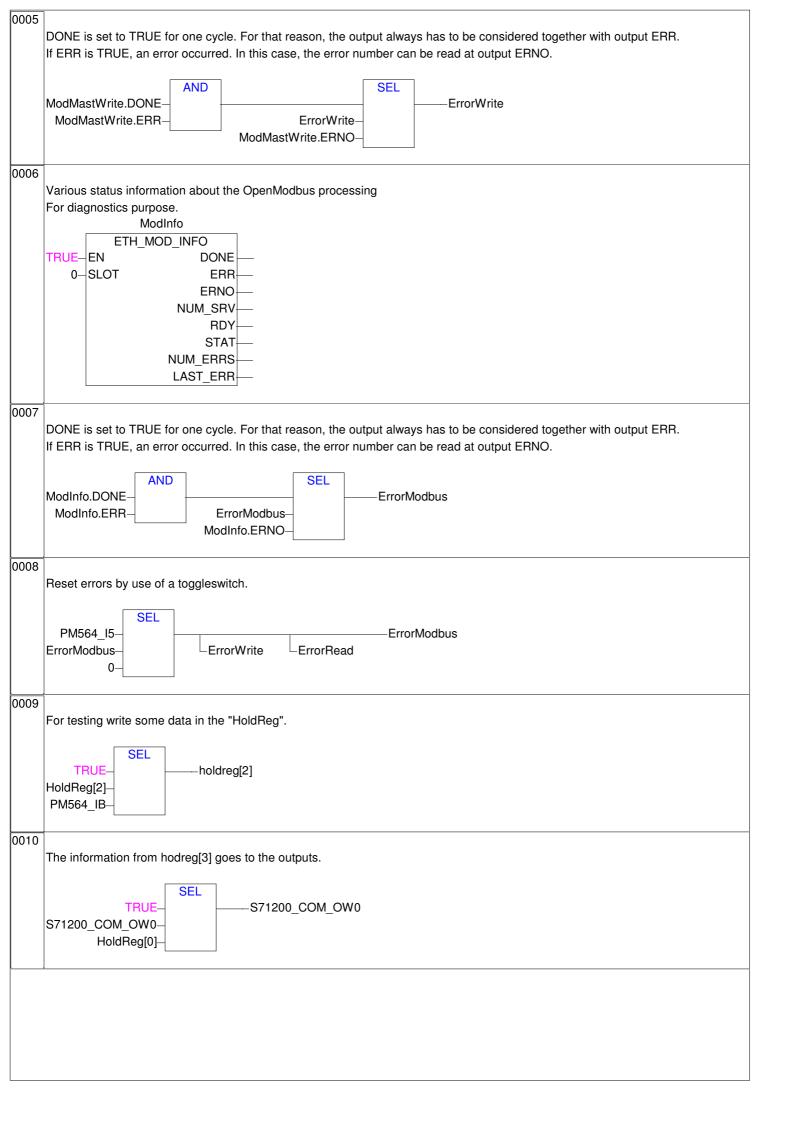
| JU I | PROGRAM MOD_COMM   |  |                                       |   |                             |        |
|------|--|--|---------------------------------------|---|-----------------------------|--------|
|      | VAR  |  |                                       |   |                             |        |
| 003  | ModInfo: ETH_MOD_INFO;   |  |                                       |   |                             |        |
| 004  | ModMastWrite: ETH_MOD_MAST;  |  |                                       |   |                             |        |
| 005  | ModMastRead: ETH_MOD_MAST;   |  |                                       |   |                             |        |
| 006  | ErrorRead: WORD;   |  |                                       |   |                             |        |
| 07   | ErrorWrite: WORD;  |  |                                       |   |                             |        |
| 08   | ErrorModbus: WORD;   |  |                                       |   |                             |        |
| 09   | ReadWritePuls: BLINK;  |  |                                       |   |                             |        |
|      | END_VAR  |  |                                       |   |                             |        |
| 01   | -  |  |                                       |   |                             |        |
|      | Build a puls to select the read en write cycle   |  |                                       |   |                             |        |
|      | ReadWritePuls  |  |                                       |   |                             |        |
|      |  |  |                                       |   |                             |        |
|      |  |  |                                       |   |                             |        |
|      | TRUE-ENABLE OUT  |  |                                       |   |                             |        |
|      | T#50ms-TIMELOW   |  |                                       |   |                             |        |
|      | T#50ms-TIMEHIGH  |  |                                       |   |                             |        |
|      |  |  |                                       |   |                             |        |
| )02  |  |  |                                       |   |                             |        |
|      | Read 10 words from the Modbus server S7-1200. At input NB, the number  | of data to be v                                | vritten                               | or read is spe  | ecified.                    |        |
|      | At input DATA, the address of the first operand in the client, from which on   |  |                                       |   |                             |        |
|      | where the data read by the server shall be stored, is specified via the ADR  |  | ~~ ***                                |   |                             |        |
|      | The function code of the request telegram is specified at input FCT.   | operator.                                      |                                       |   |                             |        |
|      | The function code of the request telegram is specified at input FCT.   |  |                                       |   | Dood                        |        |
|      |  |  |                                       | ModMast   |                             |        |
|      |  | AND  |                                       | ETH_MOD_  |                             |        |
|      | ReadWritePuls.OUT-   |  |                                       | EN  | DONE                        | -      |
|      | ModMastRead.ERR  |  | 0—                                    | SLOT  | ERR                         | -      |
|      |  |  |                                       | IP_ADR  | ERNO-                       | -      |
|      | IP ADR STRING TO DWORD   |  | 1—                                    | UNIT_ID   |                             |        |
| ļ    | '192.168.0.1'-IP ADR   |  |                                       | FCT   |                             |        |
|      |  |  | 03-                                   |   |                             |        |
|      |  |  |                                       |   |                             |        |
|      |  |  | 0—                                    | ADDR  |                             |        |
|      |  | ADR  |                                       | ADDR<br>NB  |                             |        |
|      |  | ADR  | 0—                                    | ADDR  |                             |        |
|      |  | ADR  | 0—                                    | ADDR<br>NB  |                             |        |
| 003  | HoldReg-   |  | 0—<br>10—                             | ADDR<br>NB<br>DATA  |                             |        |
| 003  | HoldReg-   | to be conside                                  | 0                                     | ADDR<br>NB<br>DATA  | utput ERR.                  |        |
| 003  | HoldReg-   | to be conside                                  | 0                                     | ADDR<br>NB<br>DATA  | utput ERR.                  |        |
| 003  | HoldReg-   | to be conside                                  | 0                                     | ADDR<br>NB<br>DATA  | utput ERR.                  |        |
| 003  | HoldReg-   | to be conside                                  | 0                                     | ADDR<br>NB<br>DATA  | utput ERR.                  |        |
| )03  | HoldReg<br>DONE is set to TRUE for one cycle. For that reason, the output always has<br>If ERR is TRUE, an error occurred. In this case, the error number can be re  | to be conside                                  | 0                                     | ADDR<br>NB<br>DATA  | utput ERR.                  |        |
| 003  | HoldReg<br>DONE is set to TRUE for one cycle. For that reason, the output always has<br>If ERR is TRUE, an error occurred. In this case, the error number can be re<br>ModMastRead.DONE  | to be conside<br>ead at output E               | 0                                     | ADDR<br>NB<br>DATA  | utput ERR.                  |        |
| )03  | HoldReg-<br>DONE is set to TRUE for one cycle. For that reason, the output always has<br>If ERR is TRUE, an error occurred. In this case, the error number can be re<br>ModMastRead.DONE-<br>ModMastRead.ERR-<br>ErrorRead-  | to be conside<br>ead at output E               | 0                                     | ADDR<br>NB<br>DATA  | utput ERR.                  |        |
| 003  | HoldReg<br>DONE is set to TRUE for one cycle. For that reason, the output always has<br>If ERR is TRUE, an error occurred. In this case, the error number can be re<br>ModMastRead.DONE  | to be conside<br>ead at output E               | 0                                     | ADDR<br>NB<br>DATA  | Itput ERR.                  |        |
| 003  | HoldReg-<br>DONE is set to TRUE for one cycle. For that reason, the output always has<br>If ERR is TRUE, an error occurred. In this case, the error number can be re<br>ModMastRead.DONE-<br>ModMastRead.ERR-<br>ErrorRead-  | to be conside<br>ead at output E               | 0                                     | ADDR<br>NB<br>DATA  | utput ERR.                  |        |
| 003  | HoldReg-<br>DONE is set to TRUE for one cycle. For that reason, the output always has<br>If ERR is TRUE, an error occurred. In this case, the error number can be re<br>ModMastRead.DONE-<br>ModMastRead.ERR-<br>SEL<br>ErrorRead-<br>ModMastRead.ERNO-  | to be conside<br>ead at output E               | 0                                     | ADDR<br>NB<br>DATA  | Itput ERR.                  |        |
| 003  | HoldReg-<br>DONE is set to TRUE for one cycle. For that reason, the output always has<br>If ERR is TRUE, an error occurred. In this case, the error number can be re<br>ModMastRead.DONE-<br>ModMastRead.ERR-<br>Write 10 words to the Modbus server S7-1200.  | to be conside<br>ead at output E               | 0                                     | ADDR<br>NB<br>DATA  | utput ERR.                  |        |
| 003  | HoldReg<br>DONE is set to TRUE for one cycle. For that reason, the output always has<br>If ERR is TRUE, an error occurred. In this case, the error number can be re<br>ModMastRead.DONE<br>ModMastRead.ERR<br>Write 10 words to the Modbus server S7-1200.<br>Read the data which will be send to the server from the array "HoldReg".   | to be conside<br>ead at output E<br>-ErrorRead | 0                                     | ADDR<br>NB<br>DATA  | utput ERR.                  |        |
| 003  | HoldReg-<br>DONE is set to TRUE for one cycle. For that reason, the output always has<br>If ERR is TRUE, an error occurred. In this case, the error number can be re<br>ModMastRead.DONE-<br>ModMastRead.ERR-<br>Write 10 words to the Modbus server S7-1200.<br>Read the data which will be send to the server from the array "HoldReg".<br>Modbus function 16 means to write a X number of words to the Modbus Ho  | to be conside<br>ead at output E<br>ErrorRead  | 0<br>10<br>ered tog<br>ERNO.          | ADDR<br>NB<br>DATA  | utput ERR.                  |        |
| 003  | HoldReg<br>DONE is set to TRUE for one cycle. For that reason, the output always has<br>If ERR is TRUE, an error occurred. In this case, the error number can be re<br>ModMastRead.DONE<br>ModMastRead.ERR<br>Write 10 words to the Modbus server S7-1200.<br>Read the data which will be send to the server from the array "HoldReg".   | to be conside<br>ead at output E<br>ErrorRead  | 0<br>10<br>ered tog<br>ERNO.          | ADDR<br>NB<br>DATA  | Itput ERR.                  |        |
| 003  | HoldReg-<br>DONE is set to TRUE for one cycle. For that reason, the output always has<br>If ERR is TRUE, an error occurred. In this case, the error number can be re<br>ModMastRead.DONE-<br>ModMastRead.ERR-<br>Write 10 words to the Modbus server S7-1200.<br>Read the data which will be send to the server from the array "HoldReg".<br>Modbus function 16 means to write a X number of words to the Modbus Ho  | to be conside<br>ead at output E<br>ErrorRead  | 0<br>10<br>ered tog<br>ERNO.          | ADDR<br>NB<br>DATA  |                             |        |
| 003  | HoldReg-<br>DONE is set to TRUE for one cycle. For that reason, the output always has<br>If ERR is TRUE, an error occurred. In this case, the error number can be re<br>ModMastRead.DONE-<br>ModMastRead.ERR-<br>Write 10 words to the Modbus server S7-1200.<br>Read the data which will be send to the server from the array "HoldReg".<br>Modbus function 16 means to write a X number of words to the Modbus Ho<br>In our case the server is a Siemens S7-1200 plc which uses datablock 2 for  | to be conside<br>ead at output E<br>ErrorRead  | 0<br>10<br>ered tog<br>ERNO.          | ADDR<br>NB<br>DATA<br>gether with ou  | Write                       |        |
| 003  | HoldReg<br>DONE is set to TRUE for one cycle. For that reason, the output always has<br>If ERR is TRUE, an error occurred. In this case, the error number can be re<br>ModMastRead.DONE<br>ModMastRead.ERR<br>Write 10 words to the Modbus server S7-1200.<br>Read the data which will be send to the server from the array "HoldReg".<br>Modbus function 16 means to write a X number of words to the Modbus Ho<br>In our case the server is a Siemens S7-1200 plc which uses datablock 2 for   | to be conside<br>ead at output E<br>ErrorRead  | 0<br>10<br>ered tog<br>ERNO.          | ADDR<br>NB<br>DATA<br>gether with ou  | Write<br>_MAST              |        |
| 003  | HoldReg-<br>DONE is set to TRUE for one cycle. For that reason, the output always has<br>If ERR is TRUE, an error occurred. In this case, the error number can be re<br>ModMastRead.DONE-<br>ModMastRead.ERR-<br>Write 10 words to the Modbus server S7-1200.<br>Read the data which will be send to the server from the array "HoldReg".<br>Modbus function 16 means to write a X number of words to the Modbus Ho<br>In our case the server is a Siemens S7-1200 plc which uses datablock 2 for<br>ReadWritePuls.OUT   | to be conside<br>ead at output E<br>ErrorRead  | 0                                     | ADDR<br>NB<br>DATA<br>gether with ou<br>ModMast\<br>ETH_MOD<br>EN                                       | Write<br>MAST<br>DONE       |        |
| 003  | HoldReg<br>DONE is set to TRUE for one cycle. For that reason, the output always has<br>If ERR is TRUE, an error occurred. In this case, the error number can be re<br>ModMastRead.DONE<br>ModMastRead.ERR<br>Write 10 words to the Modbus server S7-1200.<br>Read the data which will be send to the server from the array "HoldReg".<br>Modbus function 16 means to write a X number of words to the Modbus Ho<br>In our case the server is a Siemens S7-1200 plc which uses datablock 2 for   | to be conside<br>ead at output E<br>ErrorRead  | 0                                     | ADDR<br>NB<br>DATA<br>gether with ou<br>ModMast\<br>ETH_MOD_<br>EN<br>SLOT                              | Write<br>_MAST<br>_DONE<br> |        |
| 003  | HoldReg<br>DONE is set to TRUE for one cycle. For that reason, the output always has<br>If ERR is TRUE, an error occurred. In this case, the error number can be re<br>ModMastRead.DONE<br>ModMastRead.ERR<br>ModMastRead.ERR<br>Write 10 words to the Modbus server S7-1200.<br>Read the data which will be send to the server from the array "HoldReg".<br>Modbus function 16 means to write a X number of words to the Modbus Ho<br>In our case the server is a Siemens S7-1200 plc which uses datablock 2 for<br>ModMastWrite.ERR  | to be conside<br>ead at output E<br>ErrorRead  | 0<br>10<br>ered tog<br>ERNO.<br>data. | ADDR<br>NB<br>DATA<br>gether with ou<br>Eth_MOD<br>EN<br>SLOT<br>IP_ADR                                 | Write<br>MAST<br>DONE       | -      |
| 003  | HoldReg-<br>DONE is set to TRUE for one cycle. For that reason, the output always has<br>If ERR is TRUE, an error occurred. In this case, the error number can be re<br>ModMastRead.DONE-<br>ModMastRead.ERR-<br>ModMastRead.ERR-<br>Write 10 words to the Modbus server S7-1200.<br>Read the data which will be send to the server from the array "HoldReg".<br>Modbus function 16 means to write a X number of words to the Modbus Ho<br>In our case the server is a Siemens S7-1200 plc which uses datablock 2 for<br>ReadWritePuls.OUT<br>ModMastWrite.ERR<br>IP_ADR_STRING_TO_DWORD                     | to be conside<br>ead at output E<br>ErrorRead  | 0                                     | ADDR<br>NB<br>DATA<br>gether with ou<br>ETH_MOD_<br>EN<br>SLOT<br>IP_ADR<br>UNIT_ID                     | Write<br>_MAST<br>_DONE<br> | -      |
| 003  | HoldReg<br>DONE is set to TRUE for one cycle. For that reason, the output always has<br>If ERR is TRUE, an error occurred. In this case, the error number can be re<br>ModMastRead.DONE<br>ModMastRead.ERR<br>ModMastRead.ERR<br>Write 10 words to the Modbus server S7-1200.<br>Read the data which will be send to the server from the array "HoldReg".<br>Modbus function 16 means to write a X number of words to the Modbus Ho<br>In our case the server is a Siemens S7-1200 plc which uses datablock 2 for<br>ModMastWrite.ERR  | to be conside<br>ead at output E<br>ErrorRead  | 0                                     | ADDR<br>NB<br>DATA<br>gether with ou<br>ETH_MOD_<br>EN<br>SLOT<br>IP_ADR<br>UNIT_ID<br>FCT              | Write<br>_MAST<br>_DONE<br> | -<br>- |
| 003  | HoldReg-<br>DONE is set to TRUE for one cycle. For that reason, the output always has<br>If ERR is TRUE, an error occurred. In this case, the error number can be re<br>ModMastRead.DONE-<br>ModMastRead.ERR-<br>ModMastRead.ERR-<br>Write 10 words to the Modbus server S7-1200.<br>Read the data which will be send to the server from the array "HoldReg".<br>Modbus function 16 means to write a X number of words to the Modbus Ho<br>In our case the server is a Siemens S7-1200 plc which uses datablock 2 for<br>ReadWritePuls.OUT<br>ModMastWrite.ERR<br>IP_ADR_STRING_TO_DWORD                     | to be conside<br>ead at output E<br>ErrorRead  | 0                                     | ADDR<br>NB<br>DATA<br>gether with ou<br>ETH_MOD_<br>EN<br>SLOT<br>IP_ADR<br>UNIT_ID                     | Write<br>_MAST<br>_DONE<br> | -      |
| 003  | HoldReg<br>DONE is set to TRUE for one cycle. For that reason, the output always has<br>If ERR is TRUE, an error occurred. In this case, the error number can be re<br>ModMastRead.DONE<br>ModMastRead.ERR<br>ModMastRead.ERR<br>Write 10 words to the Modbus server S7-1200.<br>Read the data which will be send to the server from the array "HoldReg".<br>Modbus function 16 means to write a X number of words to the Modbus Ho<br>In our case the server is a Siemens S7-1200 plc which uses datablock 2 for<br>ReadWritePuls.OUT<br>ModMastWrite.ERR<br>IP_ADR_STRING_TO_DWORD<br>'192.168.0.1'-IP_ADR | to be conside<br>ead at output E<br>ErrorRead  | 0                                     | ADDR<br>NB<br>DATA<br>gether with ou<br>Eth_MOD_<br>EN<br>SLOT<br>IP_ADR<br>UNIT_ID<br>FCT<br>ADDR      | Write<br>_MAST<br>_DONE<br> | -      |
| 003  | HoldReg<br>DONE is set to TRUE for one cycle. For that reason, the output always has<br>If ERR is TRUE, an error occurred. In this case, the error number can be re<br>ModMastRead.DONE<br>ModMastRead.ERR<br>ModMastRead.ERR<br>Write 10 words to the Modbus server S7-1200.<br>Read the data which will be send to the server from the array "HoldReg".<br>Modbus function 16 means to write a X number of words to the Modbus Ho<br>In our case the server is a Siemens S7-1200 plc which uses datablock 2 for<br>ReadWritePuls.OUT<br>ModMastWrite.ERR<br>'192.168.0.1'-<br>IP_ADR_STRING_TO_DWORD       | to be conside<br>ead at output E<br>ErrorRead  | 0                                     | ADDR<br>NB<br>DATA<br>gether with ou<br>Eth_MOD_<br>EN<br>SLOT<br>IP_ADR<br>UNIT_ID<br>FCT<br>ADDR      | Write<br>_MAST<br>_DONE<br> | -      |
| 003  | HoldReg<br>DONE is set to TRUE for one cycle. For that reason, the output always has<br>If ERR is TRUE, an error occurred. In this case, the error number can be re<br>ModMastRead.DONE<br>ModMastRead.ERR<br>ModMastRead.ERR<br>Write 10 words to the Modbus server S7-1200.<br>Read the data which will be send to the server from the array "HoldReg".<br>Modbus function 16 means to write a X number of words to the Modbus Ho<br>In our case the server is a Siemens S7-1200 plc which uses datablock 2 for<br>ReadWritePuls.OUT<br>ModMastWrite.ERR<br>IP_ADR_STRING_TO_DWORD<br>'192.168.0.1'-IP_ADR | to be conside<br>ead at output E<br>ErrorRead  | 0                                     | ADDR<br>NB<br>DATA<br>gether with ou<br>ETH_MOD<br>EN<br>SLOT<br>IP_ADR<br>UNIT_ID<br>FCT<br>ADDR<br>NB | Write<br>_MAST<br>_DONE<br> | -      |
| 003  | HoldReg<br>DONE is set to TRUE for one cycle. For that reason, the output always has<br>If ERR is TRUE, an error occurred. In this case, the error number can be re<br>ModMastRead.DONE<br>ModMastRead.ERR<br>ModMastRead.ERR<br>Write 10 words to the Modbus server S7-1200.<br>Read the data which will be send to the server from the array "HoldReg".<br>Modbus function 16 means to write a X number of words to the Modbus Ho<br>In our case the server is a Siemens S7-1200 plc which uses datablock 2 for<br>ReadWritePuls.OUT<br>ModMastWrite.ERR<br>'192.168.0.1'-<br>IP_ADR_STRING_TO_DWORD       | to be conside<br>ead at output E<br>ErrorRead  | 0                                     | ADDR<br>NB<br>DATA<br>gether with ou<br>ETH_MOD<br>EN<br>SLOT<br>IP_ADR<br>UNIT_ID<br>FCT<br>ADDR<br>NB | Write<br>_MAST<br>_DONE<br> | -      |
| 003  | HoldReg<br>DONE is set to TRUE for one cycle. For that reason, the output always has<br>If ERR is TRUE, an error occurred. In this case, the error number can be re<br>ModMastRead.DONE<br>ModMastRead.ERR<br>ModMastRead.ERR<br>Write 10 words to the Modbus server S7-1200.<br>Read the data which will be send to the server from the array "HoldReg".<br>Modbus function 16 means to write a X number of words to the Modbus Ho<br>In our case the server is a Siemens S7-1200 plc which uses datablock 2 for<br>ReadWritePuls.OUT<br>ModMastWrite.ERR<br>'192.168.0.1'-<br>IP_ADR_STRING_TO_DWORD       | to be conside<br>ead at output E<br>ErrorRead  | 0                                     | ADDR<br>NB<br>DATA<br>gether with ou<br>ETH_MOD<br>EN<br>SLOT<br>IP_ADR<br>UNIT_ID<br>FCT<br>ADDR<br>NB | Write<br>_MAST<br>_DONE<br> | -      |



0011

Write the received data from the S7-1200 to the local outputs.

S71200\_COM\_OB0-----PM564\_OB