FUNCTION\_BLOCK ModbusErrorCheck

VAR\_INPUT

xDone: BOOL;

xError: BOOL;

timeoutTime: INT;

END\_VAR

VAR\_OUTPUT

state: INT;

stateString: STRING;

error: BOOL;

END\_VAR

VAR

TonError: TON;

TonStartup : TON;

END\_VAR

TonError(IN := state = 20, PT := INT\_TO\_TIME(timeoutTime));

TonStartup(IN := state = 0, PT := T#20S);

error := FALSE;

CASE state OF

0:

stateString := 'CZEKANIE NA KOMUNIKACJE';

IF xDone THEN

state := 10;

ELSIF xError AND TonStartup.Q THEN

state := 20;

END\_IF

10:

stateString := 'KOMUNIKACJA OK';

IF xError THEN

state := 20;

END\_IF

20:

stateString := 'OSTRZEZENIE';

IF TonError.Q THEN

state := 30;

ELSIF xDone THEN

state := 10;

END\_IF

30:

stateString := 'BLAD KOMUNIKACJI';

error := TRUE;

IF xDone THEN

state := 10;

END\_IF

END\_CASE