JX3-AO4

Version Update

from V 1.01 to V 1.02

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Revision 1.00

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1 Introduction

Introduction

This chapter shows the history of the JX3-AO4 module's operating system versions.

The Purpose of an Operating System Update

What can be done by an operating system update on the JX3-AO4 module:

- Expanding the function range
- Fixing software bugs
- Transmitting a certain operating system version, for example at releasing a customer-specific operating system version

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Operating System Update

OS File for Operating System Update

For an operating system update, you will need the following file:

OS File	Description
JX3-AO4_1.02.0.00.os	Operating system file for JX3-AO4 mit der Version 1.02.0.00.

OS File Download

Jetter AG provides OS files for operating system download to our **Homepage** http://www.jetter.de. OS files can be found via quicklink on the support site of the JX3-AO4 module.

Operating System Update by means of JetSym

Carry out the following steps for an operating system update:

Step	Action
1	OS File Download from www.jetter.de
2	Establishing a connection between PC and controller
3	Executing the menu item Build > Operating System Update in JetSym
4	Selecting the OS File
5	Depending on the controller and on the module, the following items are to be specified: ■ Module number ■ Submodule socket ■ Slave number ■ I/O module number
6	Start the operating system update by ok
7	**Result:** After Power Off / Power On, the new operating system starts.

Overview of Version Updates

V 1.02.0.00 The following table gives an overview of the newly added function and the fixed software bugs in operating system version 1.02.0.00:

Function	New	Bug
Output of analog values:		
Consistent output at value change		✔
Module Register(s):		
Reading and writing of negative values		✔

2   Fixed Software Bugs

Introduction

This chapter describes the software bugs which have been fixed in the new operating system release.

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Output of Analog Values

Effects of this Bug

By writing into module registers MR 2 through MR 5, a new analog value is output at the analog outputs. Under fault condition, the following pattern of errors can occur at the analog outputs:

Step	Description
1	Describing module registers MR2 to MR 5 by the application program.
2	The JX3-AO4 module outputs the new value at the analog output.
3	After a short instance, the JX3-AO4 module again outputs the former value at the analog output.
4	After a short instance, the JX3-AO4 module again outputs the new value at the analog output.
5	Now, the value at the analog output is stable.

Affected Releases

The error occurs in the following releases of the JX3-AO4 module:

OS version	1.01.0.0
Hardware revision	not relevant
Configuration or operating mode	not relevant
Internal remark	977

Remedy / Workaround

There is no remedy to be applied to the releases concerned.

Bug Fix

Starting from the following releases of the JX3-AO4 this bug has been fixed:

OS version	1.02.0.0
Hardware revision	not relevant
Configuration or operating mode	not relevant

Reading and Writing of Negative Values in the Module Registers

Effects of this Bug

At writing a negative value into a module register, another value is read back. The following module registers are affected:

- Module Registers: 1y04, 1y08, 1y09, 1y10, 1y13, 1y14, 1y15, 1y19, 1y20, 1y21, 1y80

Affected Releases

The error occurs in the following releases of the JX3-AO4 module:

OS version	1.01.0.0
Hardware revision	not relevant
Configuration or operating mode	not relevant
Internal remark	951

Remedy / Workaround

The JX3-AO4 module takes the correct negative value. At reading out, the value has to be adjusted by the following JetSym STX program:

```
Var
    Temp : int;
    // Module register of the module
    MR1104 : int at %vl 100021104;
End_Var;

Task main autorun
    // Write a negative value into the module register
    MR1104 := -100;
    // Read out a value; the following will then be found in
Temp: 65436
    Temp := MR1104;
    If
    // check for a negative value
        BitSet(Temp, 16)
    Then
    // Change value in Temp to -100
        Temp := TEMP WOR 0xFFFF0000;
    End_If;
End_Task;
```

Bug Fix

Starting from the following releases of the JX3-AO4 this bug has been fixed:

OS version	1.02.0.0
Hardware revision	not relevant
Configuration or operating mode	not relevant