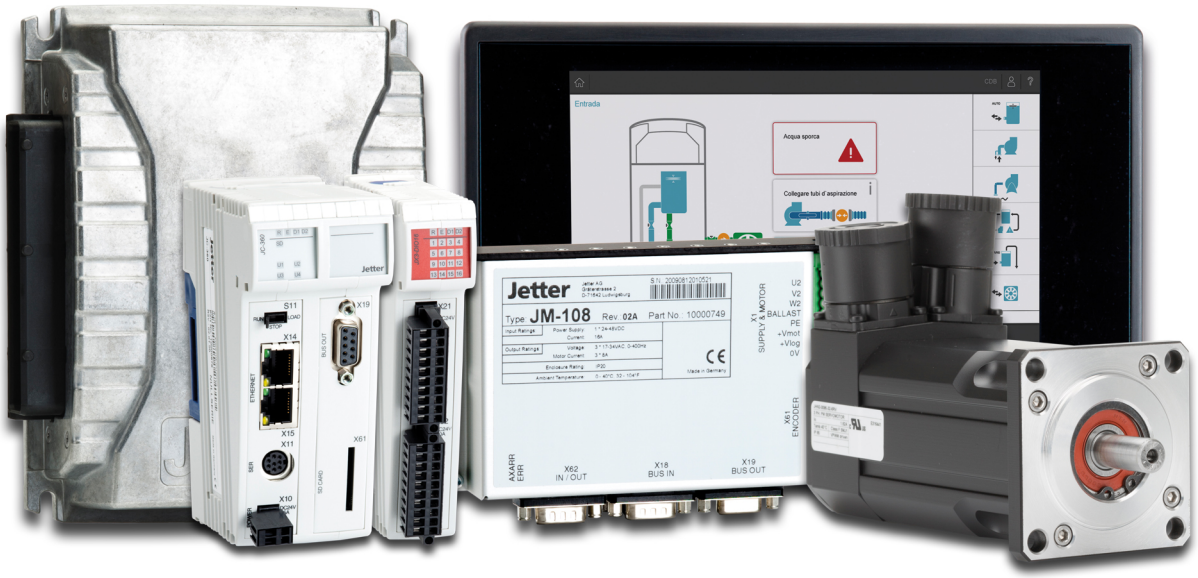
Jetter automation



JX3-DMS2

Version Update from V. 2.00 to V. 2.01

We automate your success.

Revision 1.01
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1 Introduction

Introduction

This chapter shows the history of OS versions.

Operating system update - Why?

An OS update lets you enhance the functionality of your device by

- adding new functions
- fixing software bugs
- installing an OS of a specific version after its release

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Updating the operating system

OS file for an operating system update

For an OS update, you will need the following file:

OS file	Description
JX3-DMS2_2.01.0.00.os	Operating system file for JX3-DMS2 with version 2.01.0.00.

Downloading the OS file

Jetter AG make OS files available for download from their **homepage http://www.jetter.de**. OS files can be found in the support area. Another option is to follow the quick link on the JX3-DMS2 page.

OS update by means of JetSym

To update the OS, proceed as follows:

Step	Action
1	Download the OS file from www.jetter.de.
2	Establish a connection between PC and controller.
3	In JetSym, navigate to menu item "Build", then click "Update OS...".
4	Select the OS file.
5	Depending on the controller and the module the following information has to be entered: ■ Module number ■ Submodule position ■ Slave number ■ I/O module number
6	Start the operating system update by clicking OK.
7	**Result:** Following Power OFF/Power ON the new OS is launched.

JX3-DMS2 version update - Overview

V. 2.00.0.00

The following table gives an overview of newly added features and fixed software bugs in operating system version 2.00.0.00:

Function	New	Fixed
Unipolar mode:		
Unipolar mode can be activated to increase the resolution of measurements.	✓	
Commands:		
MR 1y01: Commands 300, 301 and 302 let you configure unipolar mode.	✓	
MR 1y01: Commands 112 and 113 let you enable and disable a channel.	✓	
Error detection:		
Scaling error	✓	
LEDs D1 and D2:		
LEDs D1 and D2 indicate an error of the corresponding channel.	✓	

V 2.01.0.00

The following table gives an overview of newly added features and fixed software bugs in operating system version 2.01.0.00:

Function	New	Fixed
Tare function:		
Tare function through writing to MR 1y29 has been fixed.		✓
Commands:		
The speed of the A/D converter could not be increased any more after issuing command 107 (very slow mode).		✓
Module registers		
If the value was > 2^16, MR 1y27 created the possibility of an internal value overflow.		✓
MR 1y34 was introduced for correcting the sensor sensitivity. The function assigned to MR 1y11 has never been correct.	✓	
Bit 16 of MR 0 - Status - was not set, although both analog channels were ready for operation.		✓

2 New features

Introduction

Jetter AG are continuously striving to add new features and functions to the module JX3-DMS2. By updating your OS you are given the possibility to take advantage of the new functionality. To do so, you need the following ...

- an OS file
- the software tool JetSym
- a connection between PC and controller

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MR 1y34 - New register for setting the sensor sensitivity

Why this register was introduced:	Up to now, MR 1y11 has been wrongly implemented. To get the correct result, the double value must be entered into MR 1y11.
Compatibility	For reasons of compatibility, there is a new MR 1y34 *Sensor sensitivity in µV/V* starting from OS version 2.01.0.00. The parameters of MR 1y34 are correct. Module JX3-DMS2 mutually converts the values of both MR 1y11 and MR 1y34. This way, the customer is spared the otherwise necessary adjusting the software.

3 Fixed software bugs

Introduction

This chapter describes the software bugs which have been fixed in the new OS version.

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Tare function has been fixed

Symptoms

Reading and writing to MR 1y29 does not work. In MR 1y29 the tare function of scales has been implemented.

Affected versions/revisions

The following versions/revisions are affected by this bug:

OS version	< 2.01.0.00
Hardware revision	Not relevant
Configuration or operating mode	Not relevant

Remedy/workaround

There is no remedy for the affected versions/revisions.

Remedy

Starting from the following versions/revisions this bug has been fixed:

OS version	2.01.0.00
Hardware revision	Not relevant
Configuration or operating mode	Not relevant

Command 107 cannot be undone

Symptoms

If, by issuing command 107, you set the operating mode of the A/D converter to *very slow mode*, the conversion speed cannot be increased any more.

Affected versions/revisions

The following versions/revisions are affected by this bug:

OS version	< 2.01.0.00
Hardware revision	Not relevant
Configuration or operating mode	Not relevant

Remedy/workaround

As a remedy, turn the module JX3-DMS2 off and on again.

Remedy

Starting from the following versions/revisions this bug has been fixed:

OS version	2.01.0.00
Hardware revision	Not relevant
Configuration or operating mode	Not relevant

Potential value overflow caused by the value in MR 1y27

Symptoms

If you enter a value ≥ 65,535 into MR 1y27 *User-defined scaling*, this may lead to an internal value overflow. The value overflow depends on the A/D conversion value.

Affected versions/revisions

The following versions/revisions are affected by this bug:

OS version	< 2.01.0.00
Hardware revision	Not relevant
Configuration or operating mode	Not relevant

Remedy/workaround

As a remedy, enter only values < 65,535 into MR 1y27.

Remedy

Starting from the following versions/revisions this bug has been fixed:

OS version	2.01.0.00
Hardware revision	Not relevant
Configuration or operating mode	Not relevant

Module JX3-DMS2 does not set bit 16 of MR 0

Symptoms

Even if both analog channels are ready for operation, module JX3-DMS2 does not set the global collective bit 16 in MR 0.

Otherwise, collective bit 16 is set, if the measured values are valid.

Affected versions/revisions

The following versions/revisions are affected by this bug:

OS version	< 2.01.0.00
Hardware revision	Not relevant
Configuration or operating mode	Not relevant

Remedy/workaround

There is no remedy for affected versions/revisions.

Remedy

Starting from the following versions/revisions this bug has been fixed:

OS version	2.01.0.00
Hardware revision	Not relevant
Configuration or operating mode	Not relevant

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